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AUGUST 31, 1929.

Vol. CXI.



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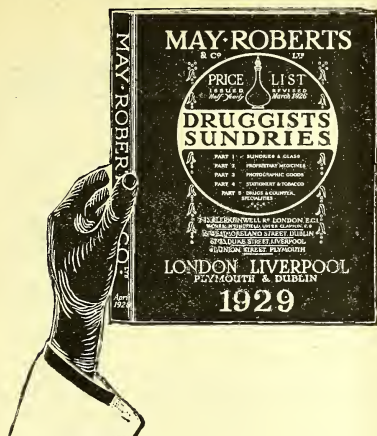
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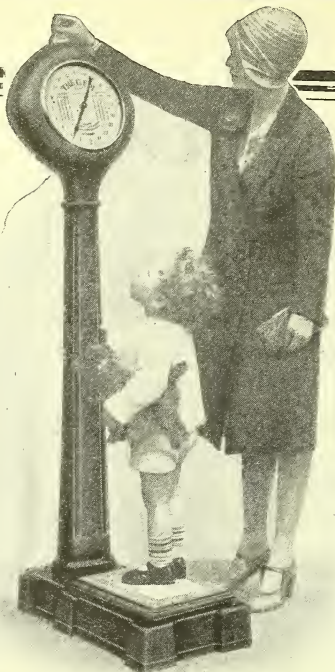
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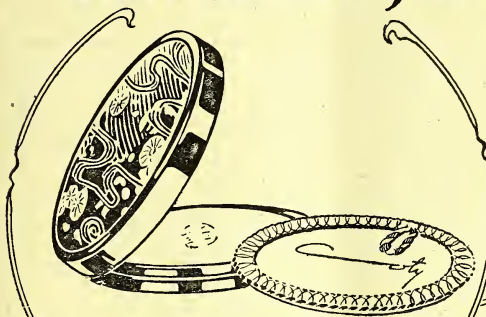
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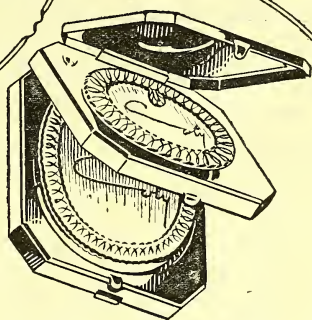
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AND  
HEALS

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**HOWARDS' ASPIRIN TABLETS,**  
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Order through your Wholesale House, please.

As an index to the public demand for Howards' Aspirin Tablets our books show that the year ending July 31st has broken all previous records for sales. Howards' Aspirin Tablets are easily the most profitable Aspirin Tablet on the P.A.T.A., for the Pharmacist.

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Place your order with your Wholesale House *early*.

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# £1 of ROBOLEINE

**F**OR a fortnight's window display and a £5 order (made up in any sizes), we will send you an additional supply of Roboleine to the value of 20/- absolutely free. Samples and literature for your counter and display material for your window will also be included without charge.

Take advantage of this special offer now, in time for the steadily increasing Summer trade. The great advertising campaign has pushed Roboleine off the phar-

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CONCENTRATED NOURISHMENT  
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8½d. Tins

5/6 per doz. 63/- per gross

1s. 3d. Tins

9/6 per doz.

108/- per gross

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- (4) The Acids of Fruit stimulate the production of alkaline saliva which neutralises food acids.

NEW-MIX is the only Tooth Paste that contains Fruit Acids in a paste which is kept separate from an alkaline paste (until they meet on the brush) by the use of a "tube within a tube."

The inner tube contains a Fruit Acid paste which cleanses the teeth and gums and the outer tube contains superfine polishing substances.

The Fruit Acid content is neutralised by the Alkaline paste contained in the Outer Tube, with the result that after using NEW-MIX the oral cavity is thoroughly cleansed and left mildly alkaline, which is the sole objective of a dentifrice.

*We should be pleased to supply, upon request, a specially made skeleton tube for demonstrating to potential customers how the two pastes are kept separate until mixed on the brush.*



**GILMONT PRODUCTS, Ltd.**

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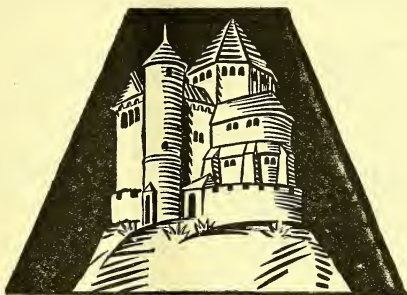
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all the year  
round, Sir,  
with  
Moorland  
Heart Shape  
Tablets**



*Ask us to send you details of our advantageous buying terms*  
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# Maw's Page



## IMPREGNABLE

To make a name in business, to achieve what is generally known as business success, is a comparatively easy matter.

Success, if it be regarded merely as the amassing of profits, can come in a month, a week, or even in a day. Moreover, it is unfortunately not always the result of the most admirable traits in human character. Chicanery, craft and cunning are often responsible for mushroom business growths.

But to build an enduring reputation, to establish a permanent goodwill and develop a definite policy which will withstand the stresses and strains of generations of business, this is indeed an accomplishment. Character, integrity, reliability, loyalty and vision are all necessary for its achievement.

The name "Maw" represents to the retail pharmacist not so much a business as a reputation and a policy. It is a symbol, the badge of a business house, which by virtue of loyalty and faithful service has become a business institution.

Think what the name "Maw" means. Think how for one hundred and twenty-two years it has fostered the finest traditions of business and of pharmacy. Think how closely it is linked with the best interests of the retail pharmacist.

You will then realise that the "Maw" policy is a matter not of the letter, but of the very spirit of business: a thing of the heart as well as of the mind.

The "House of Maw" could not alter its policy and still be "Maw's." Nor does this policy blow hot one day and cold the next. There it is, clearly stated, steady as a rock, impregnable as a fortress, come what may, for good or evil, profit or loss—"Pharmacists only."

**S. Maw, Son & Sons, Ltd.,**  
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and Barnet.



We have minimised production costs by equipping our Works with the most up-to-date machinery.

These Tubes are of the highest quality and finish combined with as low prices as any house in the Trade.



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Best Service and Delivery.

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The British-Made Hair Clipper.

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Our complete range of Artificials will allow a cheap replacement in many formulas, which will become necessary owing to the advance in price of the naturals, due to the severe weather having had disastrous effects on the trees.

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**ORANGE BLOSSOMS 1244**

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A range of Samples and Prices on application.

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The answer is doubtless in the negative. But picture for a moment a traveller calling with something entirely new — something startling — something that you will certainly want.

The Peronia men have started on their Christmas journey with a set of samples absolutely new to this country. The firm has been appointed sole agent for the leading puff manufacturer in Paris, who specializes in wonderful china figures, each one holding a swansdown puff in typically Parisian style. Words cannot do justice to the novelty of these lines, so we ask you to make a point of seeing them for yourself.

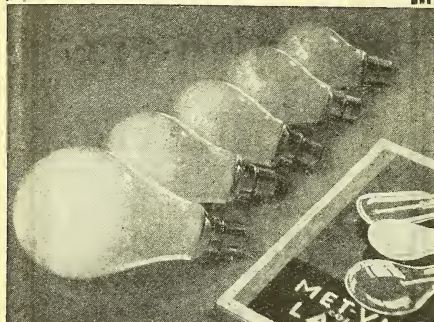
They will **MAKE** your Christmas window, and will fascinate your customers as much as they will fascinate you.

When the Peronia traveller is announced, please bear in mind that you want to see these exclusive models.

*Peronia*

STONEY STREET  
NOTTINGHAM





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**Brilliance without Glare  
Abundant Light without Harshness**

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The Cosmos Standard Series comprises five sizes of Pearl Lamps:—

15 Watt 25 Watt 40 Watt 60 Watt 100 Watt  
Standard Voltages.

2/- 2/- 2/- 2/- 3/6

230 Volts.

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GUARANTEED FOR 2 YEARS

Standard Model  
£25 or £2 down  
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down

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Complete in handsome travelling case

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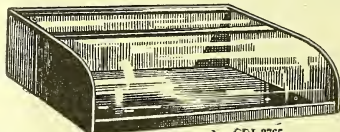
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LIVERPOOL: 25 Whitechapel.

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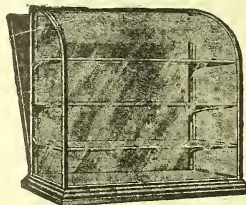
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Useful Glass Showcase, 17" wide x 6" high x 18" back to front. Drop Flap at back, fitted Felt Lined Tray inside Wood Ends, Oak or Mahogany Frame. Each **32/6**



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# An important announcement



**SOMETHING** New and Startling in Hot Water Bottles.

Most new phases of India Rubber Hot Water Bottles in recent years have not exactly been to the advantage of the trading chemist: Jazz patterns, fancy shapes, ridiculous teddy bear pram warmers have been some of the developments, but perhaps the worst was the cheap pressed bottle—as doubtful in origin as it is unsatisfactory in use. No wonder ordinary folk now stop to think when buying this type of article.

## THE GUARANTEED BOTTLE

Ayrton's have striven after a genuinely "Free-o-Risk" Hot Water Bottle, capable of carrying a comprehensive guarantee against the dangers of bursting. Year by year they have improved their Model on quality points, winning a rapid expansion of reputation and an enormously increased sale because of reliability.

## AND NOW!

As the culmination of a long experimental period, Ayrton's have been able to secure Provisional Patents for an entirely new development for the improvement of India Rubber Hot Water Bottles, and like articles.

## AN IMPERVIOUS LINING

Retaining all the proved features of a bottle built by "Rubber Engineers," a new feature has been evolved in the form of a composition which is impervious to steam or water. This is utilized as an inner lining and is visible on the inner side of the funnel and overlaps the top rim. *Look for the black rim bottle.*

## PROTECTING THE FABRIC AND SEAMS

This composition is both integral and laid over the specially-woven cambric, and by its decreased porosity and enhanced density definitely precludes the absorption of moisture into the fabric or seams, even to the extent of inhibiting the percolation of steam under pressure.

An important feature of this new process is an increased conductivity of heat, without depreciating the soft resiliency and caressing comfort of a rubber Hot Water Bottle.

## NO INCREASE IN PRICE

The Ayrton Patent adds little to the production cost, and results in our being able to offer an infinitely better India Rubber Hot Water Bottle at no increase in price, but with the certainty of more satisfactory use, covered by our burst-proof guarantee.

## FOR THE CHEMIST ONLY

In past years the remarkable development of our sales has indicated that we have been instrumental in increasing the disposal of high quality Hot Water Bottles through the legitimate channel of the Pharmacy. This new introduction will enormously assist the Chemist to maintain this class of business in his own hands, particularly as every facility hitherto given for

## CHEMIST'S OWN NAME

(moulded on the bottle) will be made available in connection with the "Free-o-Risk" introduction.

## AYRTON, SAUNDERS & CO., LTD.

will be pleased to send a specimen piece of this new Hot Water Bottle (any size) *post free* to any trading chemist at the dozen price.

### GREY INDIA RUBBER HOT WATER BOTTLES.

	8x6	10x6	10x8	12x6	12x8	12x10	14x8	14x10	
Singles ..	2/9	3/-	3/3	3/3	3/9	4/2	4/2	4/9	each.
1 dozen ..	32/-	35/-	38/-	38/-	44/-	49/-	49/-	56/-	per doz.
3 " @	31/-	34/-	37/-	37/-	43/-	48/-	48/-	55/-	" "
12 " @	29/-	32/-	35/-	35/-	41/-	46/-	46/-	53/-	" "

### RED INDIA RUBBER HOT WATER BOTTLES.

	3/1	3/4	3/7	3/7	4/-	4/5	4/5	5/-	
Singles ..	3/1	3/4	3/7	3/7	4/-	4/5	4/5	5/-	each.
1 dozen ..	36/-	39/-	42/-	42/-	47/-	52/-	52/-	59/-	per doz.
3 " @	35/-	38/-	41/-	41/-	46/-	51/-	51/-	58/-	" "
12 " @	33/-	36/-	39/-	39/-	44/-	49/-	49/-	56/-	" "

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## University College, Nottingham

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The following courses will be held:—

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION:—A nine months' course.

PHARMACEUTICAL CHEMIST QUALIFYING EXAMINATION and B. PHARM. EXAMINATION:—The First and Second years of a two years' course.

PRELIMINARY SCIENTIFIC EXAMINATION:—(I) A nine months' full time course; (II) a (nine months') part time course; (III) a two or three years' evening course.

INTER B. PHARM. A nine months' course.

The above full time courses for the session 1929-30 will be held at University College, University Park.

Students are prepared for the External Degrees of London University in Arts, Economics and Commerce, Music, and Pure and Applied Science, and for the College Diploma in Commerce, Social Study, Mining, Engineering and Textiles.

Full particulars of all courses are contained in the Prospectus of the Department, which may be obtained post free on application to the Registrar.

Intending Students for the next Session are advised to notify the Registrar as soon as possible.

## WESTMINSTER COLLEGE OF PHARMACY.

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PRELIMINARY SCIENTIFIC COURSE	-	£1 10
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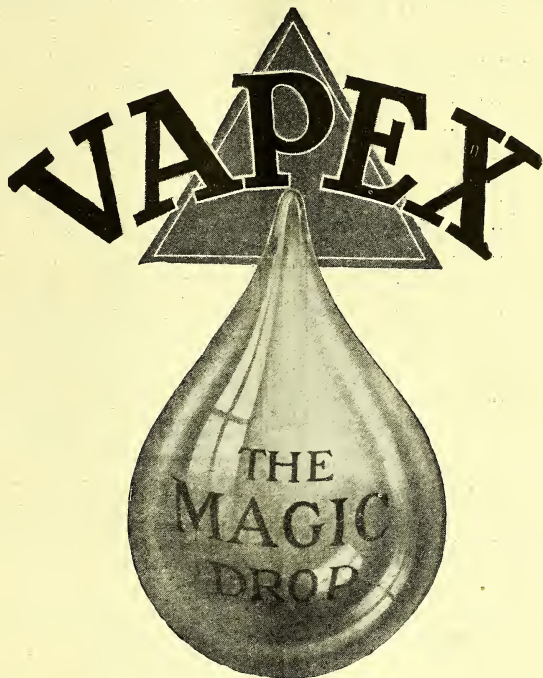
Principal—H. HUMPHREYS JONES, F.I.C., F.C.S., Ph.C.

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Full Time Courses commence in OCTOBER.

Six Months' Course for Part I.  
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Particulars from the Principal.



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Now is the time to re-order a good supply of "Vapex" to be ready for the Autumn demand. Please write for full particulars of the new window display and special terms.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents  
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ESTABLISHED 1797.

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## Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
<b>PILENTA SOAP</b> .. ..	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> .. ..	10/-	1/-
For the lips.		
<b>PARSIDIUM JELLY</b> .. ..	10/-	1/-
For wrinkles.		
<b>ALLAGITE OF ORANGE</b>		
<b>BLOSSOM</b> .. ..	22/6	2/6
A dressing cream.		
<b>BORANIUM</b> .. ..	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> .. ..	22/6	2/6
For a facelotion.		
<b>COLLIANDUM</b> (Powder & Solide.)	22/6	2/6
For a face tint.		
<b>PERGOL</b> .. ..	22/6	2/6
A deodorant.		
<b>TEKKO PASTE</b> .. ..	22/6	2/6
Camphor cream.		
<b>STALLAX</b> .. ..	13/6	1/6
For a shampoo.	22/6	2/6
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For clearing the skin.		
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For the eyelashes.		
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A face cream.	31/6	3/6
<b>STYMOL</b> .. ..	36/-	4/-
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<b>SILMERINE</b> .. ..	22/6	2/6
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For grey and faded hair.		
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To check excessive perspiration locally.		
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For figure development.		
<b>SIPOLITE</b> .. ..	18/-	2/-
A new depilatory.		

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<b>CLYNOL BERRIES</b> .. ..	36/-	4/-
For obesity.		
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For wrinkles.		
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Brilliant and lasting.		

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## Be always watching your ANZORA stocks!

Unless you do, you're likely to run out when you least expect it. That means profit lost, for no Anzora user will accept a substitute. He knows there isn't such a thing—nothing so good as Anzora for mastering the hair. Look to your stocks now and order if necessary.

**ANZORA**  
*Masters the Hair!*

ANZORA CREAM for greasy scalps will not soil hat linings or pillows. ANZORA VIOLA for dry scalps contains a little oil of violets.

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12/- doz.  
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A supply of  
Attractive Show-  
cards and Cut-  
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Display sent post  
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Wholesaler,  
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## For thinning hair

Recommend Rowland's Macassar Oil, the favourite of 136 years. It keeps the hair healthy, and staves off greyness and baldness.



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**Rowland's  
Macassar Oil**

Red for  
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for fair or  
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The Blade that SELLS as it SHAVES—  
"LIKE GREASED LIGHTNING!"

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OF THE GREATLY INCREASED  
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*Saville's*  
**JANE**

*Perfumery Series*

during the past few months.

Since the beginning of the year, each month - -

JAN. FEB. MARCH **APRIL MAY JUNE JULY**

has established its own new SALES RECORD,  
proving the progressive popularity of this charming  
series.

That such a record of progress should have been achieved during  
the "quiet" months of the year is a sure indication of a

**BOOM DEMAND FOR *JANE* PERFUMERY  
DURING THE SEASONABLE MONTHS  
AHEAD**

Are you getting your share of this increasing business?

N.B.—Write for illustrated folder of latest *JANE*  
window displays—**THEY SELL THE GOODS**

**SAVILLE PERFUMERY LIMITED, WATFORD, HERTS.**





# 87% PROFIT

## ON A LINE THAT SELLS ITSELF!

Odol Tooth Paste is forcefully advertised by instructional films in every cinema of importance and practically every daily newspaper and evening newspaper in the land. This continued publicity ensures a steady demand all the year round. Yet, by taking advantage of our actual bonus offer, you can handle Odol Tooth Paste at a profit of 87% on costs.

### WINDOW DISPLAY BONUS

Besides obtaining a supply of FREE Odol Tooth Paste your co-operation with us in the matter of a special window display enables you to reap fullest benefits from our nation-wide advertising campaign. Read the three following offers carefully and forward your order for Odol Tooth Paste—1/- size—NOW.

OFFER No. 1.		87% PROFIT ON COST.	£	s.	d.
1	Gross lots and upwards, 7/10½ per dozen...	...	4	14	6
	Less 5% Cash 7 days	...	0	4	9
			4	9	9

Window Display Bonus, 2 dozen Tubes FREE. This Parcel realises £8 8s. 0d.

OFFER No. 2.		84% PROFIT ON COST.	£	s.	d.
6	dozen lots, 8/- per dozen	...	2	8	0
	Less 5% Cash 7 days	...	0	2	5
			2	5	7

Window Display Bonus, 1 dozen Tubes FREE. This Parcel realises £4 4s. 0d.

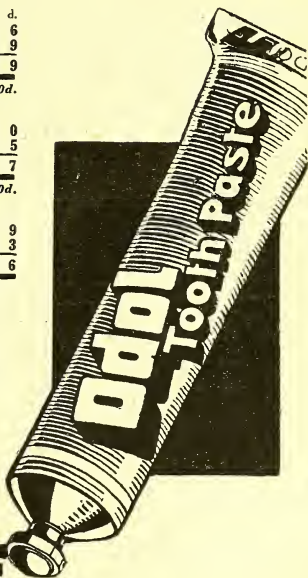
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3	dozen lots, 8/3 per dozen	...	1	4	9
	Less 5% Cash 7 days	...	0	1	3
			1	3	6

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# Odol

## TOOTH PASTE



CRANBUX LIMITED OF NORWICH



*A well-kept hand is the hall mark of refinement !*

**WILL YOU ACCEPT 6/- EXTRA PROFIT ?**  
(CASH WITH ORDER ONLY)

**"Veldt Cream"** *the unequalled preparation which does whiten hands and arms, is now packed in*  
**3d. Tubes (1/2oz.) 3 dozen in Show Box**

**LINK UP WITH OUR NATIONAL ADVERTISING BY DISPLAYING PROMINENTLY IT SELLS ! IT SELLS !! IT SELLS ALL THE YEAR ROUND !!!**

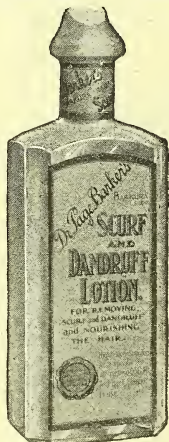
We look upon this 3d. tube as a form of sampling, yet bringing you profit. Send us a P. O. or check for 27/- for one gross and we send you

**ABSOLUTELY FREE** 1/2 doz. 1/- size (3 oz. bottles) in handsome container for counter. This is a permanent offer and a form of supplementary advertising. Show matter included carriage paid, or try one 3 doz. show box from your usual patent house.

Sole Manufacturers :

***The "Veldt" Laboratory.***

Louth,  
England

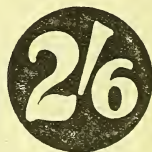


With every order for 3 dozen you get three 2/6 bottles as bonus, handsome metal showstand, and attractive showcards.

# Dr. Page-Barker's Scurf & Dandruff LOTION

**The recognised  
specific for scurf**

EVERY bottle of Dr. Page-Barker's Scurf Lotion bears a positive guarantee that it will eradicate scurf or the purchase price will be refunded. This makes it the easiest to sell of all hair and scalp specifics. And the profit is handsome.



P.A.T.A.

**PER 18/- DOZEN**

**SEE OUR NEW AND ARTISTIC SHOWCARDS  
WRITE FOR EXPORT TERMS**

**THOS. CHRISTY & CO., 4-12 OLD SWAN LANE, LONDON, E.C.4**



# The Most Important GERMICIDAL AND ANTISEPTIC SHAMPOO DISCOVERY of Modern Times!

**MILLIONS WILL WELCOME  
THIS NEW SHAMPOO!**

An extensive National Advertising Campaign is now being undertaken by Edwards Harlene Ltd., on behalf of their NEW Liquid, Antiseptic, Germicidal SHAMPOO. A Great Public Demand is being created for this Unique Product, and all Chemists are urged to have ample stocks on hand, otherwise they may find themselves obliged to turn away profitable business.

*All indications point to this line being an IMMEDIATE success. It will be welcomed by millions for it fulfils a widely-felt present-day need. It will create NEW Business, for it is an ENTIRELY NEW PRODUCT, unlike any other Shampoo on the market!*



Take advantage of the Advertising Campaign now being launched.

## Harlene

The name of "Harlene" is sufficient guarantee of the EXCELLENCE and EFFICACY of the Product and the Public will buy with CONFIDENCE.

**Liquid, Antiseptic, Germicidal,**

**"The Best Selling  
Line of 1929!"**

## Shampoo

**SECURE YOUR  
SHARE OF THIS  
NEW VOLUME OF  
TRADE!**

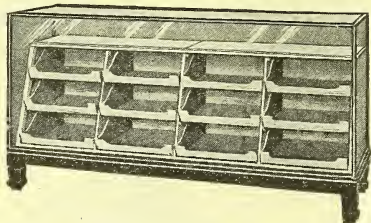
### ORDER YOUR STOCK TO-DAY!

Generous Terms are offered to the Trade and YOU are urged to lay in a stock of this Remarkable NEW STYLE Shampoo with the least possible delay. You cannot afford to turn away NEW BUSINESS!

Write for Terms immediately to:—

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On some goods you doubt that you are getting an adequate return for outlay, on some you are certain, on none can you rely so absolutely as on those things that enhance the attractiveness of your Pharmacy. A well-designed fitting is

## An Investment

that brings a perpetual return. It attracts custom, gives status and lasts long after it has paid for the initial cost. We shall be pleased to discuss any shop-fitting problem.

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Perfect organisation in all departments enables us to estimate with exactness the day on which even the largest order can be dispatched.

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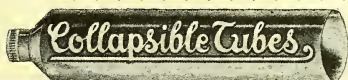
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Date-expired tubes returned to us postage paid will be exchanged free of charge.

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For destroying Blackbeetles, Cockroaches, Crickets, &c.  
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Danzo Beetle Powder will not deteriorate by keeping.  
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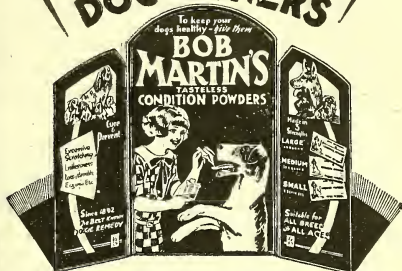
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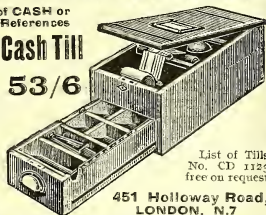
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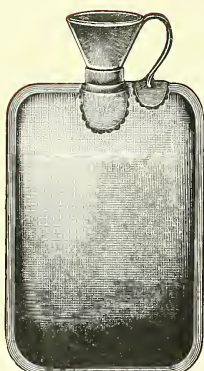


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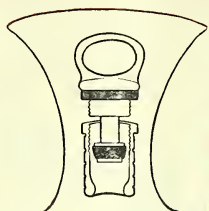
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RUBBER		COVERS	
Grey	Red	Size	Velour Fleecey
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32/6	36/-	10×6	11/6 5/6
38/-	41/-	10×8	12/6 6/-
36/-	39/-	12×6	12/6 6/-
42/-	45/-	12×8	14/- 7/-
48/-	51/-	14×8	15/6 8/-
49/-	53/-	12×10	16/6 8/6
55/-	60/-	14×10	19/6 9/6
66/-	—	14×12	21/- 9/6
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68/-	—	16×12	26/- 14/-

Velour Covers in Pale Blue, Sage Blue, Rose, Pink, Grey or White.

Fleecey Covers in Pale Blue, Sage Blue, Grey or Pink.

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NON-LEAKING NECK AND DOUBLE SEAL STOPPER



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Per

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Dozen.

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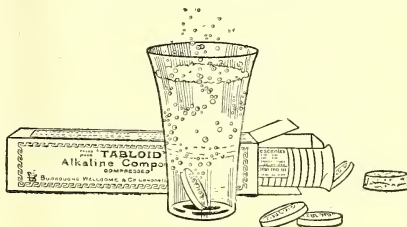
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- (4) Strict uniformity—every batch alike.

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54 Foster's Bldgs, High St., Sheffield. (Tel.: 22458.)  
19 Waterloo Street, Glasgow. (Tel.: Central 2329.)  
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## Business Changes

J. & D. WILSON, chemists, have opened a shop at Hairst Street, Renfrew.

TIMOTHY WHITE (1928), LTD., are opening a new pharmacy at 11 Calverley Road, Tunbridge Wells.

PETROLAGAR LABORATORIES, LTD., is the new style of Deshell Laboratories, Ltd., Braydon Road, London, N.16.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Tuesday, September 3

Glasgow Pharmacy Club (Ladies' Golf Section), Springhall Course. Second round "Guest."

### Wednesday, September 4

Scottish Chemists' Bowling Association. Single-handed competition for Travellers' Trophy on Rutherglen Bowling Green Stonelaw Road at 10 a.m. Entry forms to be obtained from Mr. J. S. B. Hiddle, Secretary, 257a Leith Walk, Leith.

## English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Imported Malt Extract

It is announced that a reference has been made to the Standing Committee set up under the Merchandise Marks Act, 1926, by the Minister of Agriculture and Fisheries, the Secretary of State for the Home Department and the Secretary of State for Scotland, acting jointly, in respect of an application for an Order in Council under the Act to require the marking with an indication of origin of imported malt extract; malt flour; malt extract and cod-liver oil; and malt extract blended with any other product in such a way that malt extract comprises more than 50 per cent. of the whole. The date of the inquiry will be announced later. Any communication with regard to the matter should, however, be addressed, as early as possible, to Mr. H. J. Johns, the Secretary of the Standing Committee, 10 Whitehall Place, London, S.W.1.

### Inquests

At Cambridge, on August 14, an inquest on the body of Mr. Thomas C. Lewis, a former Fellow of Trinity College, resulted in a verdict to the effect that he died from an overdose of aspirin taken by misadventure. The medical evidence was to the effect that in the body was found 3 oz. or 4oz. of a whitish substance in flakes that proved to be aspirin or a similar product.

At Leeds, recently, an inquest on George Wormald, an inmate of the Union Hospital, resulted in a verdict of "Death by misadventure." The Board of Guardians thereupon held an inquiry, in the course of which it was stated that it had been the practice to send to the attendant a bottle containing only one dose, and this the attendant would administer. Then the practice was changed, and a bottle containing more than one dose was sent to the attendant. The Board was of the opinion that, while the attendant was largely to blame, he was not wholly so. At the same time any attendant should read the directions on the bottle before administering, and if the attendant responsible in this case had done so the patient would not have died.

At Tunbridge Wells, on August 21, an inquest on the body of Annie N. Luck, Brenchley, was concluded. Dr. G. R. Lynch, Home Office analyst, stated in evidence that he had specially tested the organs for arsenic and had not been able to detect its presence. The Coroner: You were told specially that the presence of arsenic was suspected?—Yes, I carried out far more tests than I should have done in a general examination. Supposing efforts had been made to eliminate the poison would you have expected to find arsenic in any portions of the organs submitted to you on the 16th? Dr. Lynch replied that he would have found traces in the hair and nails. Even if there had been doses on the 12th and nothing after that?—Yes. The witness was questioned with regard to a sample of urine submitted for analysis to St. Bartholomew's Hospital and a report that weak traces of arsenic had been found. Dr. Lynch said that it was quite common to find such traces in the case of perfectly normal people. A verdict of "Death from natural causes" was returned.

### Liverpool

The amalgamation of Liverpool and Bootle is again being talked of.

Mr. Harry Wilson, Ph.C., who has been living at Southport since he sold his business at Southampton, has now fully recovered, during his stay at Scarborough, from the effects of his recent illness.

The popularity of the Liverpool School of Pharmacy is emphasized by the fact that the principal (Mr. H. Humphreys Jones, F.I.C., Ph.C.) has had to decline twenty prospective entrants for the next session.

Shopkeepers in the northern suburbs are complaining that owing to the facilities offered by the numerous motor-bus services, a large number of people are now doing much of their shopping in the city instead of locally.

## Sheffield

Windows at the Heeley branch of Boots, Ltd., were broken recently as the result of a collision between a horse and a motor vehicle.

An article appeared in a recent issue of the "Sheffield Telegraph" describing the training necessary to become a chemist and druggist and the suitability of pharmacy as a career for women.

Professor A. J. Hall, of Sheffield University, who has been appointed a member of the Radium Commission, is remembered as being mainly instrumental in securing transfer of diachylon to Part I of the Poisons Schedule.

## Miscellaneous

**THEFT OF CAMERAS.**—A "smash-and-grab" raid occurred recently at the premises of The Prosser Roberts Co., chemists, Lambeth Walk, London, S.E., when a number of cameras were stolen.

**POISON-LICENCE APPLICATION.**—Hopol, Ltd., disinfectant manufacturers, Sandbach, have applied to the Cheshire County Council for a licence to sell agricultural and horticultural poisons at Market Place, Winsford.

**COPING FALLS ON PASSERS-BY.**—Part of a stone and brick coping from the roof of the shop of Mr. C. C. Pribik, Ph.C., Maida Vale, London, W., gave way on August 23, injuring two girls, and doing damage to the pavement and basement.

**IN THE COURTS.**—At Amphill Petty Sessions, recently, Frederick Wren was fined 30s. for falsely describing himself as a veterinary surgeon. Evidence was given by Mr. H. E. Thompson, a director of Willows, Francis, Butler & Thompson, Ltd., manufacturing chemists, London, E.8, to the effect that on ascertaining that the defendant was unregistered the company declined to accept an order from him.

**DOG WEEK.**—The second national dog week will be held on September 22-23. The object of the fixture is to educate dog owners and others in the correct principles of keeping dogs. Last year 900 localities were associated in the scheme, and it is expected that three times as many will take part next month. The address of the National Dog Week Council is 37-38 Temple Chambers, Temple Avenue, London, E.C.4.

## Irish News

## Brevities

Representatives covering areas in the west and south-west report that substantial injury is being done to their connections by travelling motor-vans. The problem is also looked upon seriously by traders in various centres in Ireland, who have recently asked the Executive Council to take steps in the matter.

At Belfast Custody Court, on August 21, Hugh Kennedy, commercial traveller, charged on remand with embezzling the sum of £245 6s. 6d., the property of his employers, James Hogg & Co., Ltd., chemists, York Street, was committed for trial. Bail was allowed. Mr. William Mann, managing director of Messrs. Hogg, said the wages of the accused were £2 a week without commission, his turnover being about £50 to £80 a week.

## Scottish News

## Brevities

In the Caithness and Sutherland inter-county bowling match on August 16 Mr. Wm. Cumming (Thurso) and Mr. Geo. Banks (Wick), both of whom are pharmacists, skipped rinks for their county, and both won, Caithness winning the cup presented by Sir Archibald Sinclair, M.P.

Arrangements have now been completed whereby insured patients in the county of Fife may be supplied with proprietary medicines, and it would seem that the drug fund will very soon be strained. It is felt that the amount allowed when proprietaries were disallowed must logically be increased unless the fund is to suffer.

## Summer Outings

On August 15 the Warwickshire branch of the Pharmaceutical Society visited Broadway, passing through some of the most beautiful country in the Cotswolds and returning by the valley of Evesham. Leaving Coventry at 1.30 p.m., picking up the Kenilworth members en route, the party was met at Leamington by the Spa contingent. From Leamington the party proceeded via Stratford-on-Avon and Mickleton to Chipping Campden. Here a short halt was called to allow a visit to the church. The route was continued through Broad Campden and Blockley to Broadway, which was approached down the famous Fish Hill. Here tea was taken at 5 p.m., and, after a short welcome from the president, the party returned home via the Littletons, Cleeve Prior, Stratford-on-Avon and Charleote Park. The outing was voted a great success, and a suggestion to visit the Malverns next year favourably received. A collection for the Benevolent Fund amounted to over £3.

## Sporting Events

THE B.D.H. Sports Association lawn tennis championship finals were played on August 17, on the B.D.H. sports ground at Highgate. The results were as follows:—*Mixed Doubles*: Miss N. Kelly and Mr. D. G. Blow beat Miss E. Molyneux and Mr. C. Kilgallon, 6-4; 7-5. *Ladies' Singles*: Miss E. Cooper beat Miss I. Bergman, 6-1; 6-1. *Men's Doubles*: Mr. A. Carter and Mr. C. Kilgallon beat Mr. S. Adams and Mr. H. Rowlinson, 6-3; 6-3; 5-7; 6-4. *Men's Singles*: Mr. D. G. Blow beat Mr. Tracey, 6-2; 8-6; 6-4. In spite of the unsettled weather, the games were carried through with little interruption. A considerable gathering attended and were well repaid by witnessing some exciting games. —The ladies section of the B.D.H. Swimming Club met the U.S.A.C. ladies in a team race at Northampton baths. The result was a win for the U.S.A.C. by 2 seconds.

## Retail Pharmacists' Union

## Branch Meetings

**Devon.**—A meeting of the Devon Branch was held at Exeter on August 21, Mr. G. A. Clarke presiding. Mr. P. F. Rowsell was thanked for the excellent fight he had put up for the Totnes division at the recent parliamentary election. Mr. W. R. B. Arnold reported on the Pharmacy Week conference, and members were appointed in each district to arrange for the posting of local advertisements.

**Manchester.**—A meeting of the Manchester, Salford and District Branch of the R.P.U. was held in the Council Chamber, Houldsworth Hall, recently. Mr. H. Stout (chairman) said the meeting had been called for the purpose of discussing arrangements for the proposed Pharmacy Week. The local executive having recommended the adoption of the scheme for this area, it rested with them to get the necessary support to make it a success. A discussion was introduced by Mr. W. I. Scholes. Mr. D. Dickson said that members should concentrate on special drug displays, as chemists were losing a good deal of their legitimate trade. Mr. J. Cleworth suggested that a suitable slogan would be of great advantage to them in their business. The whole scheme would undoubtedly do good. Mr. E. H. Simmons said that "Chemists' Week" would have been a better title, as unqualified men could take advantage of all this advertising and use the same words, "Pharmacy Week." He appealed to everyone to support the scheme, and so impress upon the public the special training and qualification of the retail chemist. Mr. G. H. Haines said that in Canada, where they ran these pharmacy weeks every year, they had a slogan which read something like this, "Trust your chemist; he is more than a merchant." The resolution: "That this meeting pledges itself to support wholeheartedly the scheme for Pharmacy Week as outlined," was carried with acclamation.

## Imported Glassware

THE Standing Committee of the Board of Trade, after inquiry under the Merchandise Marks Act, recommend that the following classes and descriptions of imported glassware, whether imported separately or as part of any other article, shall bear an indication of origin at the time of importation, and also at the time of sale or exposure for sale in the United Kingdom, viz. :—

(a) Glassware of the descriptions included in lists C and C (ii) issued in pursuance of Part I of the Safeguarding of Industries Act, 1921, as amended by the Finance Act, 1926, other than x-ray tubes;

(b) thermometer blanks and blanks for volumetric measures;

(c) glass rod.

2. Subject to the provisions of paragraphs 3 and 4, the indication of origin shall, at the option of the person by whom it is applied, be acid-stamped or etched, sand-blasted, engraved, or applied by burnt-on enamel.

3. In the case of the following goods the indication of origin may, at the option of the person applying it, be stamped, printed, stencilled, or branded on the container in which they are packed—

Test tubes, arsenic tubes, ampoules, vaccine tubes and bulbs, glass eyes, glass cells, glass wool, microscope cover glasses and slides.

4. In the case of tubing and rod, the indication of origin shall either be applied in the manner set out in paragraph 2 above at or near the end of each tube or rod, or shall be stamped, printed or stencilled on the wrapper surrounding the bundle or an end of the bundle, or, if there be no such wrapper, stamped, printed or stencilled on a label securely attached to the bundle.

It is recommended that the Order in Council should come into force three months after it is made. As regards existing stocks imported before the Order comes into force, it has been decided that the best course is to exempt them. The recommendations and arguments are fully set out in reports issued by H.M. Stationery Office (Cmd. 3380 and Cmd. 3381) price 3d. and 2d. respectively.

The Merchandise Marks Tribunal has decided not to recommend to the Board of Trade the compulsory marking of the following : "Bottles, jars and other containers of glass of the type ordinarily used for the purpose of being filled with beverages, foodstuffs, drugs, chemicals, or any other goods, to be sold or exposed for sale in such containers."

## Canadian Notes

**HONEY PRODUCTION.**—According to a report issued by the Dominion Bureau of Statistics at Ottawa, Canada produced in 1927-28 a total of 22,489,999 lb. of honey, valued at \$2,785,467, of which Ontario contributed 10,500,000 lb., worth \$950,000, and Manitoba 5,774,336 lb., valued at \$750,672. Quebec followed with an output of 4,300,000 lb., worth \$688,000, and there was a production in each of the other provinces varying from 9,500 lb. in Prince Edward Island to 885,709 lb. in British Columbia. Exports of Canadian honey last year were 1,246,017 lb., worth \$104,200, most of which was sent to the Netherlands, Germany and the United Kingdom in the order named.

THE death is announced of Everett A. Rea, pharmacist, president and chairman of the Council of the P.A.T.A., at Woodstock, Ontario, on July 22. Mr. Rea collapsed on July 4 and was removed to Woodstock General Hospital, his condition being serious, though it was expected that he would have been able to resume duties after a few weeks. He was born in Blanshard Township, Perth County, and was educated at St. Mary's and the Ontario College of Pharmacy. He spent some years at Edmonton, returned to Stratford, and then bought a drug store in Woodstock some twenty years ago. He was district representative in the Ontario College of Pharmacy Council and a past-president of the Ontario Retail Druggists' Association, and, since the death of Sir William Glyn-Jones, president of the P.A.T.A. His municipal service was very wide, and he was Mayor of Woodstock for two years.

## South African News

From "C. & D." Correspondents.  
"The Chemist and Druggist" is supplied weekly to members of Chemists' Societies in South Africa.

### East Africa

**SEQUEL TO A WRONG PRESCRIPTION.**—On August 2, at Lourenço Marques, a local chemist's assistant was sentenced to two years' imprisonment, redeemable at the rate of 50 centavos—rather more than a penny—per day, and ordered to pay £500 to the widow in connection with the death of Mr. Hugo Hoffmann in December last. Mr. Hoffmann was one of the oldest residents of Lourenço Marques, and, being under medical treatment, left a prescription at the chemists to be made up. In error, he was served by the assistant with another prescription, which happened to contain poison, and he died from the effects of taking it.

### Natal

**SALE OF PATENT MEDICINES CONTAINING POISONS.**—“The law which prohibits ordinary merchants from selling poisons is not a new one at all,” said Mr. David Anderson, the President of the Natal Pharmaceutical Society, when approached by a representative of the “Natal Mercury,” on the conviction by a Durban magistrate, of a local merchant on a charge of selling a bottle of Fellows' Syrup. “I think the law is both desirable and necessary,” he continued, “for the evidence in this particular case shows that there was enough poison in the medicine to give three fatal doses.” In such cases the medicine should only be sold by registered chemists who are subjected to the laws of the Pharmacy Board. Through their training and experience the chemists are competent to handle things of this kind. “The chemists do not want to monopolise the sale of patent medicines at all,” Mr. Anderson said, and he added that the amount of Fellows' Syrup sold in Durban would not make much difference either way. Fellows' Syrup, he pointed out, was only one of the patent medicines that contained either poison or habit-forming drugs, and there were others which had much more serious effects when wrongly used. One could not allow lysol, cresolene or chlorodyne to be sold by everyone.

### The Union

**MINOR CERTIFICATE INVALID.**—The fact that the British Minor qualification is not now recognised by the South African Pharmacy Board (*C. & D.*, July 27, p. 105) is of particular interest to British chemists and druggists. Undoubtedly conditions in South Africa have changed: the Union is now quite in a position to supply all the chemists' assistants and managers required. In fact, it is anticipated that there will be a glut ere long if there is not one already. Moreover, the Wages Act which applies to chemists and druggists is in operation, and a number will struggle along as best they can without aid.

### Transvaal

**PERSONAL.**—Dr. H. C. Storm, B.A., Ph.D., A.J.C., has been appointed head of the Department of Chemistry at the Witwatersrand Technical Institute in place of Mr. R. C. McGaffin, who has resigned in order to proceed to the United States to engage in research work. Dr. Storm matriculated in the South African College High School and graduated at Cape Town University. He then studied at Berlin and Zurich.

**METHOD FOR ASSAYING PYRETHRUM FLOWERS.**—Mr. C. B. Gnadinger, chief chemist for McLaughlin, Gormley, King Co., Minneapolis, claims to have perfected an accurate chemical method for determining the amount of active principle in pyrethrum flowers. The new method of assay will probably result in changes in methods of buying pyrethrum, for although the insecticidal properties of pyrethrum flowers have been known for more than a century no satisfactory method has existed for determining the comparative value of different lots of flowers. The application of the method to samples of commercial grades of pyrethrum shows that there is marked variation in activity in flowers of different countries. The content of active principle varies as much as 300 per cent. in flowers selling at the same market price.



## Legal Reports

**Sale of Poisonous Disinfectant.**—At Shoreham, recently, Robert James, grocer, Lancing, was summoned for having sold carbolic disinfectant containing not more than 3 per cent. of phenols, which was contained in a wrapper not distinctly labelled with the words "Poisonous, not to be taken," and not having the name and address of the defendant, as the seller, thereon. An inspector of the Pharmaceutical Society gave evidence of purchase. Mr. H. Betteridge, who defended, argued that Section 5 of the Poisons and Pharmacy Act said it should not be lawful to sell any substance to which the section applied, unless the box, bottle, vessel, wrapper or cover in which it was contained was labelled with the name of the substance and the word "Poisonous." Hence it was only necessary for one or the other to be so marked, and as it appeared on the bottle, the Act was complied with in this respect. The bottle contained the name of the seller, namely, the makers of the solution. The Superintendent: The Act means, by the seller, the person making the sale. Mr. Betteridge reiterated his point in regard to the Act having been complied with in the matter of the warning label. Possibly his client had made a mistake in regard to not having his name and address as the seller. When buying these substances, however, as a rule the manufacturers warned the chemist by a notice on the article if he had to place his name on it. In this case it was not done, and Mr. James did not know it was necessary. How far was he blamable? There were 965 Orders in Council affecting grocers. He (Mr. Betteridge) had tried and had failed to find this Order. He considered the Pharmaceutical Society should first have warned his client. The Clerk: It is possible for people to take off only the top of the wrapper and not to see it was poisonous at all. Mr. Betteridge: The Act clearly states the bottle shall be marked "Poisonous," it does not say every wrapper shall be so marked. The case was dismissed on payment of £1 5s. 4d. costs.

## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office.**

**BROADWAY CHEMISTS, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of pharmaceutical chemists and fancy goods merchants, etc. The directors are: J. H. Parker and Mrs. H. Parker. R.O.: 20 Dalton Square, Lancaster.

**TAVISTOCK SQUARE CLINIC, LTD.**—Registered August 9, as a company limited by guarantee, without share capital, with not more than 100 members, each liable for £1 in the event of winding up. The objects are: To promote the study and practice of psychotherapy, etc. The management is vested in a Council, the first members of which are: Very Rev. Dean of St. Paul's, Countess of Limerick, O. H. Smith, Sir F. J. Willis, K.B.E., C.B., H. Crichton Miller M.A., M.D., Miss W. E. Hollingsworth, Miss E. M. Sellar, R. Hulme, D. O. Malcolm and R. A. Howden. R.O.: 51 Tavistock Square, W.C.1.

**JOHN & E. STURGE (CITRIC), LTD. (P.C.).**—Capital £25,000. Objects: To acquire the branches or parts of the businesses carried on by Confectionery Ingredients and Essences, Ltd., and John and E. Sturge, Ltd., respectively, that relate to the manufacture and producing, buying, selling, importing and exporting and otherwise dealing in citrate of lime and citric acid and by-products produced in the manufacture thereof, and to acquire patents and trade marks relating to citrate of lime, citric acid, etc., belonging to such companies, and to adopt an agreement with Rowntree & Co., Ltd., and the said two companies. The first directors are: H. L. Wilson, A. L. Wilson, F. G. Fryer, A. P. Wilson, and J. B. Morrell. Solicitors: G. Barnard Black, 61, Wigginton Road, York.

**CAMERON'S SURGICAL SPECIALITIES, LTD. ("Public" Company).**—Capital £60,000. Objects: To carry on the business of dealers in, agents for and

manufacturers and retailers of surgical, dental, optical, anatomical, orthopaedic, hygienic and scientific goods, instruments, appliances and apparatus, chemists, druggists, etc.; to acquire the sole right to sell in the U.K. and Northern Ireland, the Irish Free State and Europe, goods manufactured, produced or marketed by Cameron's Surgical Speciality Company of 666 West Division Street, Chicago, U.S.A.; and to adopt an agreement with Dr. J. T. Leach. The following have consented to be directors: V. C. Albu, J. Parker, F.C.I.S., T. Taylor, J. T. Leach, M.D., U.S.A., and C. Manning. Solicitors: Biddle, Thorne, Welsford & Gait, 22 Aldermanbury, E.C.2.

**AUSTRALIAN DRUG FUSION.**—Felton Grimwade & Co. and Duerdin and Sainsbury, two of the oldest wholesale drug houses in Melbourne, Victoria, have amalgamated.

**TAYLORS (CASH CHEMISTS) TRUST,** which controls Taylors' Drug Co., R. Hovenden & Sons, and Squire & Co., announce an interim dividend of 10 per cent. on its deferred capital payable on August 31. This is a similar distribution to that of a year ago.

**VENO DRUG CO. (1925), LTD.**—The profits brought in from trading and general income, etc., by the Veno Drug Co. (1925), for the fourteen months ended March 31, 1929, after providing for all administration and management expenses, amount to £84,683, compared with £90,442 for the twelve months to January 31, 1923. After allowing £26,041 for taxation and provision therefor, there remains £58,641, which, with £3,443 brought forward, makes £62,084. Dividends on the 8 per cent cumulative preference shares for fourteen months absorb £22,400, and on the 12 per cent. cumulative preferred ordinary shares for fourteen months £30,800, while £5,500 has been written off preliminary expenses, leaving £3,384, which the directors recommend be carried forward. The whole of the preliminary expenses have now been written off—£5,500 out of the profit for the period ended March 31, 1929, and the balance of £20,000 out of the special reserve which has been set aside out of profits since the formation of the company. The deferred ordinary shares again receive no dividend, the previous distribution having been 25 per cent., less tax, for 1926-27. The company is controlled by Beechams Pills, Ltd.

## Bankruptcy Reports

**Re John Henry Nicholls,** 3 Chase Road, Brownhills, near Walsall, chemist and druggist.—The public examination was held on August 14 at the Court House, Lichfield Street, Walsall. According to the statement of affairs there were liabilities amounting to £429 16s. 6d., and a deficiency of £416 2s. 10d. Debtor stated that he bought three drug stores at Manchester, borrowing the money to make the purchase. The businesses were unsuccessful, and part of the purchase money was still owing. In October 1928 the debtor disposed of the businesses. The examination was adjourned.

**Re Philip Whipman,** drug merchant, lately of St. Dunstan's House, 8 Cross Lane and Baker's Row, Farringdon Road, E.C. The first meeting of the creditors was held last week at the London Bankruptcy Court. The receiving order was made on August 13 on the debtor's petition. His statement of affairs disclosed gross liabilities £822, of which £796 is expected to rank against net assets £100. It appeared from the debtor's statements in preliminary examination that he first started business on his own account in the drug and chemical trade in 1912, and in 1914 a company was formed to take over the business in which he had been joined previously by a partner. This company was dissolved in May 1925. Afterwards the debtor continued trading alone until June 30, 1929, when a company was formed to take over his business as a going concern. The only assets acquired by the company were the goodwill, office furniture and his (the debtor's) services. He filed his petition owing to pressure by creditors and having no means to meet their claims. His failure was attributed to insufficient working capital, trade depression and heavy overhead charges. The estate was left in the hands of the Official Receiver.

## Schimmels' Centenary

SCHIMMEL & Co., essential oil distillers, Miltitz, near Leipzig, will celebrate their centenary on September 1, 1929. It was on that date one hundred years ago that the founder, a druggist, Ernst Ludwig Spahn, together with a pharmacist, Gottlob Eduard Büttner, founded the firm of Spahn & Büttner. After a few years the latter left the concern and was replaced by Louis Schimmel, the style of the firm being changed to Spahn & Schimmel. Up to that period drugs was the principal item in the business, but from 1830 the production of essential oils was commenced on an enlarged scale. Later when the founder, Spahn, fell out, his place was taken by Louis Schimmel's brother, Eduard Hermann Schimmel, the two brothers carrying on the firm until the death of Louis Schimmel in August 1854. Eduard Hermann Schimmel, a bachelor, retired and sold the business (which meanwhile had altered its style to W. Schimmel & Co.) to Hermann Traugott Fritzsche of Pezold & Fritzsche. In this way, Fritzsche, on September 1, 1854, became sole proprietor, up to October 1869, when he took his eldest son, Hermann Traugott Fritzsche, and on September 1, 1877, his third son, Ernst Traugott Fritzsche, into partnership. On January 1, 1900, Karl August Fritzsche, and on January 1, 1906, Johannes Paul Fritzsche, both sons of Hermann Fritzsche the younger, were taken into partnership, their grandfather having retired in August 1883, after sixty years of commercial life. On December 31, 1911, Johannes Paul Fritzsche left the firm, his place being taken by Hermann Traugott Fritzsche, eldest son of Ernst Traugott Fritzsche. Hermann Traugott Fritzsche (the younger) died on July 24, 1906, and his brother Ernst on December 22, 1915. Their eldest sons, Karl and Hermann, representatives of the third generation of the Fritzsche family, are now at the head of the firm, which on January 1, 1927, was converted into a private joint stock company, taking on at the same time the old Leipzig firm of E. Sachsse & Co. Karl Fritzsche acts as president of the new company, Hermann Fritzsche as general manager, assisted by H. Breitenstein, who has been with the firm for the last thirty years, and was manager of the London branch office in pre-war days. About 1873, the firm moved from the old premises in the Hallesche Strasse to the new factory in the Berlinerstrasse, where ever since about 1840 the production of essential oils has been carried on on rather primitive lines, as was usual in those days. Late in 1869 the Berlinerstrasse factory was enlarged, steam being introduced for the comminution of raw material. The year 1879 marks an important epoch in the history of the firm, inasmuch as a chemical research laboratory was added to the plant, the first laboratory in the essential oils industry. To this fact may be attributed a highly important part of the success achieved by the firm, and the eminent men of science who have presided over this department, including Julius Bertram (1878 to 1900), Carl von Rechenberg (1883 to 1917), Eduard Gilde-meister, author of the classical work "The Volatile Oils," and Heinrich Walbaum. Such men have contributed in no small measure to the fame of Schimmel & Co. The Leipzig works having become too small for the expansion of the undertaking, a new factory was built in Miltitz, near Leipzig, which was opened on April 1, 1901. Without entering into a detailed description of those works it may at once be said that they are second to none as regards extent, capacity and excellence of equipment. At the present time the works employ twenty chemists, three engineers, three technical assistants, 150 commercial assistants and about 300 workmen. An absorption of particular interest this year was that of the well-known firm of Anton Deppe Sohne of Hamburg, which was converted into a branch factory for the production of thymol, borneol, etc. Other developments have been the opening of a branch office in New York in 1871, under the style of Fritzsche Brothers. Branch offices were also set up in London in 1899, Berlin in 1902, and in 1905 the firm established its own lavender oil distillery in the South of France, which as a result of the war was lost to the firm. A branch factory was also established in Budapest, and as a result of taking over the firm of E. Sachsse & Co. they came into possession of branch factories in Liesing, near Vienna, and in Celje.

## Settling in Business

By Fifty Odd

### III.—The Property

ONE of the chief points to be considered in relation to any business is the property and the conditions of the tenancy. Any chemist looking for a shop must have regard to the premises, their position and condition. A shop in a busy thoroughfare will cost more than one in a side street; the rent will be more, and rates and other expenses will be higher in proportion. If the building is part of a new estate—a lock-up shop with flats over it, or a house with all modern labour-saving conveniences—naturally it will cost more as a business than if it were old-fashioned property, long established in a quiet suburb. The value of the land will have some effect on the price of a business. If the builder, before erecting new property, has to pay heavily for the freehold estate, the price of the building, and consequently the rental value, will be correspondingly increased; yet the business to be established there will not necessarily produce more net profit than that carried on in cheaper premises. The man with limited capital will probably prefer the latter type of business. The building, again, may be held on lease, and the freeholder may be an old-established guild or corporation with a reputation for severity in the matter of dilapidations. This would particularly apply to businesses in London. The prospective purchaser of a business should look out for points like these, for after purchasing a lease he may have to incur heavy expenses for repairs or decorations in accordance with the requirements of the lease and the demands of the freeholders.

There is another consideration that should not be overlooked. It is possible that, if the business is offered cheap, there may be some reason why the owner is anxious to sell quickly. When taking over a lease, especially on old property, it is worth while to pay a surveyor to examine the structure, with particular attention to drains and main walls. There may even be council schemes of improvement afoot in the neighbourhood which would involve the particular property in which the prospective purchaser is interested. These are some of the drawbacks to look out for.

On the other hand, there are opportunities nowadays for utilising property in ways other than merely for shop purposes. If one can secure a large house and shop at a reasonable figure with unrestricted freehold, having a good yard and separate entrance at the rear, one can add considerably to the income derived from the business by letting off part of the premises, either to private tenants or to visiting dentists, oculists, or chiropodists, and also by erecting lock-up garages for private hire, for which there is a great demand in most districts.

Finally, do not forget the shop windows. Window space is a most important consideration in any business, but particularly if one is going to run on cash lines. Double-fronted premises, with a recessed doorway, often give six window sections, which the up-to-date young shop purchaser will want to use to full advantage. Double windows mean, generally, increased frontage, and this may increase the rateable value of the premises if in a front street position; but the extra advertising space obtained may be well worth the extra expense—if the windows are properly used. It may be worth while to put a new front into old-fashioned premises as soon as the purchase is completed. Look out for the means of lighting the window, however. Bearing all these points in mind, the prospective proprietor will be able to select from the "possibles" that are presented the one which is most suitable for his own particular purpose.

A LITTLE LEARNING.—"When I was house surgeon at St. George's Hospital I had a dresser—a dear chap—who was no mean sculler. Being an earnest student of physiology he learnt that bile lowered the surface tension of water, and so the idea occurred to him that if he painted the hull of his boat with ox bile his rate of progress would be increased. This he did, but I am afraid his ingenuity was not sufficient to make up for the greater skill of his opponents at Kingston Regatta."—A correspondent of "The Morning Post."



## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

### Local Reports

#### ENGLAND AND WALES

**Burnley.**—At a recent meeting of Burnley Insurance Committee it was reported that a chemist, whose prescription was found to be 10 per cent. deficient in nitro-hydrochloric acid, explained he rarely used this particular acid, which was of a volatile nature. He assumed it had lost strength with the lapse of time. The Pharmaceutical Service Subcommittee recommended a warning, and this was supported. The Subcommittee also reported on an analysis of flannel bandage, stating that the sample did not conform to the requirements of the British Pharmaceutical Codex since its weight was 10 per cent. less than the minimum. The chemist said the bandage supplied was in a sealed package and bore a guarantee label. The makers admitted responsibility. The Committee said it was unfair in such cases that proceedings be taken against the chemist. They suggested the Minister devise some method whereby the persons responsible should be dealt with. The Subcommittee recommended that the chemist's explanation be accepted.

**Cardiganshire.**—At a meeting of the Cardiganshire Insurance Committee, during the consideration of the Pharmaceutical Service Subcommittee's report, it was pointed out that a crêpe bandage supplied by a panel chemist did not conform to the requirements of the B.P.C. The chemist, in his explanation, said the bandage was superior to the one allowed under the Act. Whereas the one supplied cost 15s. per doz., he could supply the other at 7s. 10d. per doz. Colonel Taylor Lloyd corroborated this statement. It was extremely difficult for rural chemists to keep sufficient stocks so as to supply everything to the specification of the Codex. What the chemist ought to have done was to order the required bandage and let the customer wait.

**Essex.**—The quarterly meeting of the Essex Insurance Committee was held recently. The Finance Subcommittee reported payment to chemists for the quarter ended June 30 of £12,541 12s. 7d. The Medical Benefit Subcommittee submitted the following statistics for the quarters ended March 31 in the past four years:—

Year	Prescriptions	Total cost	Average cost per person
		£ s. d.	d.
1926 ... ..	299,634	11,252 17 3	10.87
1927 ... ..	412,046	14,878 3 5	13.46
1928 ... ..	357,595	12,934 9 9	11.13
1929 ... ..	469,114	16,510 19 3	13.40

The Panel Committee had decided to agree to the withdrawal of the Essex Pharmacopoeia and the adoption of the National Formulary as from October 1. The recommendation was adopted. The report of the Pharmaceutical Service Subcommittee recommended that £1 be withheld from the payment due to a chemist. The chairman said that the chemist had given long and honourable service, but the prescription was dispensed by an unqualified assistant in the absence of the qualified members of the staff. The report was adopted.

**Kesteven.**—The following chemists have been appointed members of the Pharmaceutical Committee: Messrs. Chambers, Cundale, Hopkinson and Whysall, Grantham; Mr. Hague, Lincoln; and Mr. Spyvee, Sleaford. The Pharmaceutical Service Subcommittee reported that a sample obtained from a chemist had been analysed and it appeared that there was an excess in the case of one ingredient of 90 per cent. and in the case of another ingredient of 48 per cent. The chemist did not dispute the accuracy of the certificate. He stated that his assistant had in mistake handed him the bottle containing the dry preparation instead of crystals, which accounted for the excess. He expressed his regret. It appeared that from a medical point of view, in this particular instance, there would have been no detrimental effect on a patient; also that two previous tests had been taken from this chemist and both had been satisfactory. The Subcommittee recommended that no further action be taken. The report was adopted.

**S.E. Pricing Committee.**—The Joint Committee for pricing prescriptions (South-Eastern Division) has issued the following statistics, among others, regarding National Health Insurance prescriptions:—

Year	Prescriptions	Value	Average cost per prescription	Average cost per insured person
		£ s. d.	d.	d.
1916 ..	2,510,345	64,347 17 11	6.1	16.3
1920 ..	3,056,365	132,375 17 0	10.3	28.9
1924 ..	4,281,500	161,140 13 3	9.0	32.4
1926 ..	4,864,441	179,132 18 6	8.8	35.6
1927 ..	5,446,534	197,963 18 5	8.7	35.4
1928 ..	5,289,325	190,512 15 8	8.6	32.8

The number of prescriptions disallowed during the year was 771. Of this number 223 were for brushes; the others were for:—(1) Articles in the nature of foods, such as Bemax, coffee, Benger's Food, Bourn, nutrient peptones, pearl barley and meat emulsions. (2) Testing solutions, such as eosin solution and Benedict's solution. (3) Appliances not included in the second schedule to the regulations such as—Burney Yeo inhaler, thermal and thermogene wool, chiropodist's and isinglass felt, clinical charts and thermometers, creosote lamps, droppers (not eyedroppers), elastic stockings, eyeshades, finger-stalls, foot-pads, gold beaters' skin, instep support and socks, Leduc tube, nasal douches, rubber drainage tube, safety pins, spongiopiline, sputum bottle, trusses and wrist-straps. (4) Toilet articles. (5) Disinfectants.

**Sheffield.**—At a recent meeting of the Insurance Committee a report was adopted of the Joint Services Subcommittee dealing with two test prescriptions. The first was deficient by 8.5 per cent. in potassium iodide and contained 5.4 per cent. in excess of ammonium carbonate. The chemist did not attend before the Subcommittee, and they recommended that a sum of 21s. be withheld from his account. The second sample contained an excess of 14.3 per cent. ammonium carbonate, but the second portion which had been sent for analysis had been broken in the post. The chemist accepted the statement of the city analyst, and a caution was issued. The Medical Service Subcommittee held an inquiry into a complaint by a patient against a doctor. After hearing the doctor and the patient the Subcommittee recommended the doctor be advised to use more discretion in the treatment of patients who appear to be suffering from neuroathenic trouble. The Panel Committee reported that Ostelin tablets were in the nature of medicine, that the practitioner be surcharged for the supply of glucose and Santonin, and that Marmalade and Phyllosan be referred to the Advisory Committee. At a recent meeting of the Pharmaceutical Committee a vote of condolence was passed on the death of the late chairman, Mr. J. Gilbert Jackson. Mr. F. Hindle was unanimously elected chairman and Mr. A. Knowles vice-chairman. Mr. H. Antcliffe was re-elected secretary. Messrs. Hindle, E. Preston and H. G. Williams were appointed to serve on the Pharmaceutical service Subcommittee with Messrs. Knowles, Hallett and Robinson as deputies.

### August Drug Tariff

The following are the chief alterations for August in the Insurance Drug Tariff for England and Wales:—

**Lower.**—Acid, citric, pulv., 3s. 5d. lb.; bism. carb., 12s. 3d. lb.; bism. oxid., 1s. 10d. oz.; bism. salicyl., 1s. 1d. oz.; bism. subnit., 10s. 9d. lb.; dec. senegae conc., 6s. 3d. lb.; ext. ergot, liq., 5s. 9d. lb.; ext. seneg. liq., 15s. lb.; inf. senegae conc., 5s. 3d. lb.; inf. senegae ex conc., 7d. lb.; liq. epispasticus, 1s. 3d. oz.; menthol, 2s. 5d. oz.; ol. olive, 14s. gal.; spt. aetheri, co., 9s. lb.; strych. hydrochlor., 3s. 6d. oz.; sugus scopari, 2s. 6d. lb.; tr. guaiaici, 7s. 3d. lb.; tr. senegae, 6s. 9d. lb.; tr. valerian, ammon., 5s. 4d. lb.; tr. zingib., 6s. 4d. lb.; tr. zingib. fort., 7s. 2d. lb.; ung. hamamel., 2s. 4d. lb.; ung. hyd. oxid., 1s. 6d. lb.; ung. maccurati, 3s. 4d. lb.; ung. methyl salicyl co., 7s. 6d. lb.; ung. zinci oleat., 1s. 2d. per 4 oz.; vinum pepsin., 1s. 2d. per 4 oz.

**Higher.**—Acid, acetylal., pulv., 1s. 3d. per 4 oz.; collod. salicylic co., 12s. lb.; ext. opii liq., 7s. lb.; ext. opii sicc., 7s. 9d.; lin. album., 1s. 4d. lb.; liq. opii sed., 9s. lb.; ol. anisi, 7d. oz.; ol. croton., 11d. oz.; phenacetin, 8d. oz.; phenazon., 11d. oz.; salicin., 5s. 4d. oz.; sulphonal, 1s. 8d. oz.; theobrom. et sod. salicyl., 1s. oz.



# Pharmaceutical Society of Great Britain

## Examination Results

### LONDON

The following are the results of the examination held in London last month:—

#### Pharmaceutical Chemist Qualifying Examination

The following candidates		were successful:—	
Baugh, Dorothy M., Ongar	Shaw, D. W., Birming-		
Buckle, Phyllis M., Hamp-	ham		
stead			
Fowlds, W. L., Keighley	Smelt, Elsie M., Exeter		
Jones, D. L., Brighton	Spriggs, H. J., Palmer's		
Jones, E. C., Brighton	Green		
Lean, W. S., Burton-on-	Steven, Frederick, Tyne-		
Trent	mouth		
Melville, Eileen, Cardiff	Thorpe, Eric, Palmer's		
Scholfield, T. R., Hamp-	Green		
stead			

### EDINBURGH

The following are the results of the examinations held in Edinburgh last month:—

#### Pharmaceutical Chemist Qualifying Examination

The following candidates		were successful:—	
Brown, A., Broughty	Maxwell, N. V., Kilsyth		
Ferry	Patterson, M. W., Glasgow		
Coutts, J., Glasgow	Robertson, B. S., Dundee		
Grant, C. J. R., Kirkintil-	Smith, Victor, Wigan		
loch	Thornburn, A. J., Glasgow		
Marjinson, C. C., Preston			

#### Chemist and Druggist Qualifying Examination

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for whole examination	29	1	—	5	23	1	8	7	7
Entered for C. and D., and referred subject in Prelim. Sc.	14	—	—	1	13	—	9	3	1
Entered for Prelim. Sc. only	340	6	69	83	182	—	—	—	—
Referred subject in Prelim. Sc. only	73	1	—	6	66	—	—	—	—
Entered for Chemist and Druggist only	281	—	—	—	—	9	84	69	119
Referred subject in C. and D. exam.	48	—	—	—	—	—	15	33	—
	785	8	69	95	284	10	101	94	160

Referred in one subject:—Botany, 45; chemistry, 36; physics, 14; pharmacognosy, 13; pharmacy, 71; pharmaceutical chemistry, 10; total, 189.

#### CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in the Chemist and Druggist Qualifying Examination, have been registered as chemists and druggists:—

Allan, T. H., Glasgow	Bannatyne, Dugald, Tay-
Alloby, J. E., Doncaster	nuilt
Anderson, Henry T. K.,	Barrass, William, Spenny-
Sunderland	moor
Armit, Alex., Paisley	Barrett, Doris, Glasgow
Ascroft, E. D., Liverpool	Bean, Wilfred, Leeds
Ballantine, May I.,	Birrell, Bertie, Airdrie
Dundee	

Blackley, Alexander, Ren-	Lauder, John, Glasgow
frew	Laurie, R. P., Glasgow
Blaik, C. M., Portobello	Lawson, N. R., Leeds
Bonnar, E. S., Glasgow	Leadbetter, Mary C. S.,
Bremner, H. A., Cruden	Lochgelly
Bay	Levy, O. H., South Shields
Brewster, E. A., Glasgow	Lewty, Henry, Lancaster
Bruntton, Ella B., Inner-	Littler, Horace, Chopping-
leithen	ton
Burnett, Geo., Edinburgh	Low, William, Blackhill,
Canning, Mary, Troon	Co. Durham
Chalmers, D. L., Buckie	Lowson, A. R., Dundee
Clarke, G. B. M., Glasgow	Lyde, Caroline C., Wal-
Clayton, C. P., Doncaster	lasey
Cook, J. L. D., Blackpool	McBryde, Mary, Whitley
Corkill, Bessie M., Liver-	Bay
pool	McEwan, Alice, Levenhall
Craig, Robert, Glasgow	Macgregor, R. C., Edin-
Crawford, Annie T., Ports-	burgh
mouth	MacGregor, W. A., Perth
Croll, Agnes M. F., Pais-	McIntosh, C. E. S., Dun-
ley	blane
Cumming, R. A., Sheffield	MacIntyre, William, Black-
Donald, Jessie E., New-	burn
castle-on-Tyne	McKay, J. F., Aberdeen
Drummond, G. B., Leith	Mackie, A. I., Peterculter
Duncan, D. E., Edinburgh	McNeill, Jessie S. G., Glas-
Duthie, Elsie J. S., Aber-	gow
deen	Magowan, G. Y., Kilmar-
Eaton, Martha R. E.,	nock
Liverpool	Malaney, Bernard, Man-
Ednie, E. A., Leven, Fife,	chester
Elliot, W., Bedlington	Malin, G. F., Stockport
Station, Northumberland	Maling, Caroline M., Sun-
Ewart, Lilian J., Whitley	derland
Bay	Marshall, Thomas, Edin-
Fawcett, Sydneyina, Glas-	burgh
gow	Martin, A. W., Aberdeen
Findlay, J. M., Perth	Mathie, A. B., Dundee
Freeman, A. J., Southport	Millar, Arthur, Dundee
Fullerton, A. T., Aberdeen	Miller, A. F., Kettering
Galloway, A., Ayr	Mitchell, A. E., Darlington
Geddes, J. M., Glasgow	Moir, James, Inch
George, W. E., Birkenhead	Moir, J. A. Kilwinning
Gibbon, G. R., North	Moore, W. N., Keighley
Shields	Moralee, H. B., Barrow-in-
Glover, Mary C., Stobo	Furness
Gonnella, A. P., Dunblane	Morrison, Malcolm, BURG-
Goodfellow, Alison M.,	head
Kelso	Morrison, Thomas, Aber-
Gordon, J. T., Cullen	deen
Graham, F. J., Lennox-	Murphy, Wilfrid, Edin-
town	burgh
Graham, F. D., Liverpool	Murray, J. W., Kilmar-
Graves, H. J., Sheffield	nock
Hall, Ethel, Aberdeen	Nicholson, H. M. W.,
Hall, W. H., Dundee	Tranent
Hargreaves, B. B., Chorley	Nimmo, G. A., Ayr
Harkus, F. F., Newcastle-	Nowell, E. C., Bradford
on-Tyne	Oliver, C. R., Glasgow
Hill, James, Johnstone	Pace, Robert, Newcastle-
Horne, D. W., Inch	on-Tyne
Horrocks, F. W., Mellor	Park, Jessie W., Strath-
Hughes, W. G., Pitten-	aven
weem	Paterson, John, Glasgow
Hutcheson, Hugh, Dumbar-	Paton, Robert, Montrose
ton	Pigg, N. H., Hull
Irvine, J. D., Blackburn	Pilling, John, Sheffield
Jones, Bryan, Sunderland	Ramsay, A. R. Edinburgh
Jones, R. M., Edinburgh	Rattray, Gordon, Glasgow
Jowett, Bertram, Blackpool	Redmond, J. F., Widnes
Kay, Donald, Edinburgh	Poberts, Roland, Chester
Kaye, D. R., Barrow-in-	Robinson, F. W., Bolton
Furness	Robinson, Jack, Halifax
Keating, F. J., Manchester	Scorer, Frederick, Walls-
Keir, J. P., Tillicoultry	end
Kelso, R. B., Paisley	Selby, William, York
Kempster, F. W., Liverpool	Simpson, Alison L., Edin-
Kirk, Annie L., Harrogate	burgh
Knox, Eric, Grimehorpe,	Simpson, Jane L., Mussel-
near Barsley	burgh
Langbourne, W. E., Leeds	Southall, W. R., Longton

Spencer, Thomas, New-  
castle-on-Tyne  
Strachan, W. L. D., Dundee  
Sykes, Thomas, Newcastle-  
on-Tyne  
Thackray, W. P., Leeds  
Thomas, L. H., Liverpool  
Thomson, L. A., Aberdeen  
Tomney, G. R., Stirling  
Urquhart, H. R., Dunfer-  
mline  
Voelter, P. J. F. P., Leeds  
Wade, A. B., Rutherglen  
Walker, Arthur, Barnard  
Castle

Walker, Harold, Inverness  
Walker, Leslie, Selby  
Walker, Martha, Liverpool  
Walsh, R. T., Leeds  
Watson, W. K., Knar-  
borough  
White, F. W. T., Glasgow  
Wilson, C. A. H., Aberdeen  
Wilson, W. G., Barrow-in-  
Furness  
Wood, W. E., Coniston  
Young, Olive, Seaham  
Harbour

#### PRELIMINARY SCIENTIFIC AND CHEMIST AND DRUGGIST QUALIFYING EXAMINATIONS

The following, having satisfied the examiners in the Preliminary Scientific and Chemist and Druggist Qualifying Examinations, have been registered as chemists and druggists:—

Arnott, M. A. G., Dun- fermline	Crosbie, Robert, Glasgow
Black, W. J., Annan	Headrick, Margaret R., Alva
Broatch, Davidena S., Lockerbie	Leece, Thomas, Keswick
Burt, J. M., Lochgelly	Telford, G. W., Berwick

**Jacob Bell Scholarship**  
Harry Noble, Newcastle.

#### Leverhulme Scholarships

- (1) J. L. Toon, Leicester.
- (2) J. Jackson, Llandrindod Wells.
- (3) J. W. Soulsby, Newcastle.

## National Insurance Formulary

By T. H. Flemming, Ph.C.

THERE is probably much to be said for adopting a National Insurance Formulary, though all the argument is not on one side. If, however, such a formulary is to come into general use it is surely desirable that it should reflect credit on both the medical and pharmaceutical professions. This cannot be said of much contained in the Formulary now issued, and it will be difficult to persuade some local areas to supplant perfectly satisfactory preparations by "concoctions" that would bring discredit upon any pharmacy. In your issue of August 24 Mr. John Humphrey has published quite a number of interesting criticisms which call for attention. I wish to confine my remarks for the most part to the liniments, which surely register the low-water mark in pharmaceutical art. The only excuse for those responsible must be the obsession of cheapening production. The result, as might have been expected, has been "cheap and nasty." Many of the pharmaceutical weaknesses of this Formulary are traceable to this dangerous desire for cheapness.

**LINIMENTUM ALBUM.**—If it were necessary to depart from the B.P.C. liniment, why was cottonseed oil introduced? Had the pharmacists on the Joint Committee ever made this preparation? I have prepared several samples and seen those made by others, including two wholesale houses. In every case the result is entirely false to its name, being simply a sickly yellow mixture, which in a short space of time separates into its respective layers. I do not believe it is possible to prepare, according to this formula, and using a B.P.C. cottonseed oil, a liniment that any pharmacist of repute would care to send out of his premises. When one remembers that this preparation is intended to be kept in stock and poured out as required, its unsuitability is obvious. After many experiments I have come to the conclusion that if cottonseed oil is to be retained, the introduction of soap into the formula is the only thing likely to give a satisfactory result. Mr. Forster, of Seaham Harbour, who has spent much time on these liniments, has suggested the following:—

Sapo, mollis ...	...	...	3j.
Liq. ammon. fort. ...	...	...	3ij
Aquæ A. ...	...	...	3ij.
Ol. terebinth ...	...	...	3ij.
Ol. gossypii sem. ...	...	ad	3ij.

The sample I prepared according to this formula is an excellent liniment, after standing for five weeks. The cost would not be materially increased. The formula included in the North of England Medical Formulary is also quite satisfactory. It is:—

Camphoræ ...	...	...	3ss.
Ammon. chlor. ...	...	...	3ss.
Ol. terebinth. ...	...	...	3j.
Sapo, mollis ...	...	...	3ij.
Aq. ...	...	ad	3iv.

**LIN. METHYL SALICIL.**—In this preparation it would appear that the lime in the liq. calcis is insufficient to emulsify the quantity of oil present. Mr. Forster has suggested the use of liq. calc. sacch., as in the following:—

Ol. gossypii sem. ...	...	...	3vj.
Methyl salicyl. ...	...	...	3iv.
Liq. calc. sacch. ...	...	...	3iv.
Aquæ ...	...	...	3ij

There is only slight separation after standing five weeks. I find that a preparation quite as good, if not better, results from the simple replacement of the liq. calcis in the Formulary by liq. calcis sacch. These are far from perfect liniments, but are possibly the best modifications of the original formulas.

**LIN. ACONITI CO. METH.**—The separation in this liniment has been noted by Mr. Franklin, Mr. Forster, and others. The lin. sedativ., N.E.M.F., is a modification with the following formula:—

Lin. aconiti meth. ...	...	...	3vj.
Lin. bellad. meth. ...	...	...	3vj.
Chloroform ...	...	...	3ij.
Aquæ ...	...	...	3ij.

**FLUID EXTRACTS.**—The use of liquid extracts in dispensing was never intended when these preparations were introduced, and the quantities ordered are impossible to measure accurately in present-day graduated measures.

**INI. VAGINALES.**—Not only is the use of a teaspoon as a measure objectionable because of its variability in size, but its use (especially in the poorer homes) for measuring poisonous substances such as plumbi acetates introduces a grave danger.

One does not look for perfection in a National Formulary, especially on a first attempt, but if the proposed book is to meet with general adoption, I cannot but feel that steps should be taken immediately to remedy some of the more glaring defects.

## New Books

Knights, C. C.—*Essentials of Selling*. 7½ in. by 4½ in. Pp. 128. 3s. 6d. The Campion Publishing House, Ltd., 29 Fetter Lane, London, E.C.4 [A handbook for students of business methods written by a recognised expert, who has several text-books on salesmanship to his credit, in a concise and readable style. Lord Leverhulme contributes a preface.]

D. D. Rosewarne.—*The Science of Nutrition Simplified*. 8 in. by 5½ in. Pp. 314. 6s. 6d. Henry Kimpton, 263 High Holborn, London, W.C.1. [The title of this book accurately indicates its contents. It supplies the widely recognised need of a handbook which sums up in a clear and readable manner current scientific research and theory in the many problems connected with dietetics. The author recognises in a foreword the assistance of Mr. C. H. Le Bosquet, who has undertaken the entire work of compilation. The collaboration of the author and the compiler has resulted in a treatment of their subject which is entirely free from dogmatism, and embodies recent research without pressing any debatable deductions from it. A sufficient flavour of science is imparted to the book by the inclusion of tables and diagrams illustrating chemical and other details. No better guide for the large class of intelligent readers devoid of actual scientific knowledge could well be devised.]

## Trade Notes

WINCARNIS.—Coleman & Co., Ltd., Norwich, refer to the new prices and terms for Wincarnis on another page.

AMERICAN DRUGS are advertised in this issue by S. B. Penick & Co., New York, who invite inquirers to cable at the firm's expense.

IMPENDING ADVERTISING.—Vinolia Co., Ltd., Bebington, Cheshire, inform us that during September their Premier and shaving soaps are to be extensively advertised in the lay Press.

COLLAPSIBLE TUBES.—Andersen & Bruuns Factories, Ltd., Copenhagen F., Denmark, call attention to the advantages of their "tinnallum" tubes over other varieties of collapsible tubes.

HOT-WATER BOTTLE DEVELOPMENT.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, describe the latest improvements in their indiarubber hot-water bottles in the advertisement pages.

OIL PUMPS.—Joshua Rea & Sons, Ltd., Collingwood Street Oil Works, Liverpool, make fifteen different models of oil pumps; that advertised in this issue is a combination pump and pan specially designed for eliminating waste.

MERCURIO EUROPEO (The Italo-Spanish mercury combine) have appointed Roura & Fargas, 14 Seething Lane, London, E.C.3, as sole importing buyers for Great Britain, Northern Ireland, Irish Free State, Australia, New Zealand, South Africa, and British Guiana.

W. A. QUINN, LTD., Diamond House, 37-38 Hatton Garden, London, E.C.1, who are sole distributors throughout the British Empire for a number of optical products, are anxious to transact business with wholesalers and shippers. An excellently illustrated catalogue is available on application.

HOWARDS' ASPIRIN BONUS.—Howards & Sons, Ltd., manufacturing chemists, Ilford, are making in this week's *C. & D.*, a bonus offer involving window-show terms. It is available through the usual wholesale houses during September and October only, the time when most chemists are replenishing their stocks for autumn and winter business.

RASPBERRY VINEGAR.—J. C. Arnfield & Sons, Ltd., manufacturing chemists, Gadsby Works, Princes Street, Stockport, have sent us a sample of their raspberry vinegar made from this season's fruit. The product is excellent both in colour and flavour, and is fully guaranteed to meet all the requirements of the new Regulations. Messrs. Arnfield—one of the oldest and largest manufacturers of raspberry vinegar—state that it will keep indefinitely without fermentation or deposit. A sample and prices will be sent to *C. & D.* subscribers on application.

STANIFORM PRODUCTS.—Staniform, Ltd., Carnwath Road, London, S.W.6, have placed on the market a series of curative preparations containing methyl stannic iodide as the active ingredient. This chemical is available in the form of the original powder, as an ointment (in tubes and pots), dusting powder, solution in water and glycerin, an alcoholic tincture, a spray in liquid paraffin, tablets and suppositories. The products combine the usefulness of tin in staphylococcal infections with the germicidal properties of iodine. An extensive advertising campaign is to be undertaken, and the preparations, which are on the P.A.T.A. list, will be available through the usual wholesale houses. Retail prices are given in the advertisement pages.

CRANBUX, LTD., Westwick Street, Norwich, have produced a booklet entitled "The Teeth and Their Care," supplies of which they offer to send to chemists for free distribution to customers. The booklet, while informal, is written in non-technical language, and is illustrated with a number of coloured plates. These pictures depict various stages in the development, structure and decay of the teeth, the bacteria of the mouth, and the efficiency or otherwise of various shapes of tooth-brushes. It is shown that the Odol tooth-brush, owing to its convex and concave bristles, enables the maximum

number of bristles to be in contact with the teeth at a given time. Window display bonus terms for Odol products are given elsewhere in this issue.

THE attention of *C. & D.* subscribers has been drawn from time to time to the striking results obtained on certain golf courses in this country and the United States by maintaining the soil in an acid condition with repeated dressings of ammonium sulphate. For the convenience of greenkeepers, The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1, have placed on the market a special "Golf Links Outfit," containing, with the exception of distilled water, everything for testing the pH value of the soil. This provides a simple means for those concerned to see for themselves how they are progressing in keeping the soil in a suitable state. The procedure is described and the apparatus illustrated in a booklet published by the company, copies of which may be obtained on application.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.

(From "The Trade Marks Journal," July 31, 1929.)

- "BYJO": for all goods (47). By Rigby Taylor, Ltd., Garside Street, Spa Road, Bolton. 503,867.
- "ARBENA": for toilet articles (43). By Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1. 492,459.
- "SI-KO": for liquid or paste dentifrices (49). By Aktieselskapet Si-Ko, 4 Jernbanetorvet, Oslo, Norway. 499,616. (Associated.)
- Russian characters on circle; for toilet articles (49). By Leningrad Jirovoy Trest (Lenjet), Fontanka 19, Leningrad, Russia. 496,492.
- "MARQUISE": for powder puffs (49). By Société Anonyme La Houpe, 3 Rue de la Ferme, Billancourt, Seine, France. 501,936.
- "KRASKA": for perfumery, etc. (43). By The Kraska Co., Ltd., 65 Portobello Road, Notting Hill Gate, London, W.2. 503,629. (Associated.)
- "FINBEL": for perfumery, etc. (43). By A. Finlay, Ltd., Victoria Square, Belfast. 504,145.

(From "The Trade Marks Journal," August 7, 1929.)

- "PROUTIN": on oblong frame; for all goods (1). By Paul Gulden, 54 Karl Heinestraße, Leipzig W.33, Germany. 501,046.
- "DEXTRAMITE": for photographic chemicals (1). By The Chemical & Insulating Co., Ltd., West Auckland Road, Darlington. 501,134.
- "GLANCIN": for rust preventive (1). By Crown Chemical Co., Ltd., 120 Victoria Street, London, S.W.1. 503,661.
- "B. M. C. P." with two interlocked triangles (B.M.C.P. disclaimed); for agricultural chemicals, etc. (2). By B. M. Chemical Products, Ltd., 49 Eastcheap, London, E.C.3. 500,598. (Associated.)
- "BLACK CAT BRAND" with picture of black cat; also picture of black cat alone; for preparations of digitals (3). By Matthews Laboratories, Ltd., Clifton Grove, Clifton, Bristol. 494,765/766. (Associated.)
- "SELVADIN": for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 503,192.
- "VIVADENT": for medicinal chemicals (3) and perfumery, etc. (43). By Thomas Kerfoot & Co., Ltd., Bardsley Vale Mills, Oldham Road, Bardsley. 503,959/960. (Associated.)
- "VIVAEOL": for medicinal chemicals (3). By P. Zizine, 24 Rue de Fecamp, Paris, France. 502,506.
- "OLIVITA": for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 504,095.
- "BOUVIE": for medicinal chemicals (3) and for perfumery, etc. (43). By E. Griffiths Hughes, Ltd., 68 Deansgate Arcade, Manchester. 504,028/029. (Associated.)
- "PAPYRUS": for photographic papers (39). By Kosmos Photographics, Ltd., Balfour House, Finsbury Pavement, London, E.C.2. 502,261. (Associated.)
- "ROBAXEN": for perfumery, etc. (43). By The Chloride Electrical Storage Co., Ltd., Clifton Junction, Nr. Manchester. 503,568. (Associated.)
- Device including head in circle; for perfumery, etc. (43). By Mrs. Pomeroy, Ltd., 115 Harwood Road, Waltham Green, London, S.W.6. 500,125. (Associated.)
- "IDELETA": for perfumery, etc. (43). Vinolia Co., Ltd., Lever House, Victoria Embankment, London, E.C.4. 503,639. (Associated.)



## Births

Notices for insertion in this column must be properly authenticated.

STOTT.—At the Birch Hill Maternity Hospital, recently, the wife of Arnold Stott (general manager, The Wardle Cotton Co., Ltd.), The Hollies, Wardle, Rochdale, of a son.

TODD.—At "Vaudine," Manor Way, North Harrow, on August 27, Muriel, the wife of R. Todd (representative staff, Sangers, Ltd.), of a son.

## Marriages

BRYAN—CHELL.—At St. Mary's Church, Castlechurch, Stafford, on August 12, Albert Marriott Bryan, chemist and druggist, to Theresa Edna Gwendoline Chell.

FIELDING—DALE.—At Brunswick Church, Bury, Lancs, on August 5, Harold Fielding, chemist and druggist, to Esther Dale.

HICKS—BADHAM.—At St. Andrew's Church, Bath, on August 6, Alan Richard Hicks, chemist and druggist, to Marion Badham.

WALKER—HALL.—At King Street United Methodist Church, Wigan, on August 12, Alexander Clifford Walker, L.D.S., to Eva, only daughter of Mr. L. C. Hall, chemist and druggist, The Avenue, Monument Park, Wigan.

WING—WHITE.—At St. George's, Hanover Square, London, W.1, on August 14, John Frederick Wing, M.P.S., Hendon, N.W., to Beatrice Amy, daughter of Mr. W. White, M.P.S., Luton.

## Deaths

AVES.—On August 18, suddenly, Mr. Owen Aves, F.B.O.A., ophthalmic optician, 115 Hoe Street, Walthamstow, London, E.17, aged forty-eight. Mr. Aves, who was born at Workop, intended at one time to enter pharmacy, but eventually decided to adopt optometry as his vocation. He was chairman of the Institute of Ophthalmic Opticians from 1923 to 1928, and served on many committees and other public bodies set up to investigate optical subjects.

CORDER.—At Meadow, Brundall, on August 24, Mr. John Talwin Corder, chemist and druggist, aged fifty-eight. Mr. Corder succeeded his father, the late Mr. Octavius Corder, Ph.C., a former president of the British Pharmaceutical Conference and examiner to the Pharmaceutical Society, in business in London Street, Norwich, and, on disposing of the business, became manager of the drug department of Jarrold & Sons, Ltd., Norwich. He was an active Red Cross worker during the war.

HOWE.—On August 6, Mr. Oliver George Howe, chemist and druggist, Ramsey, Huntingdon, aged seventy-eight.

LOWES.—Recently, the wife of Mr. Herbert Lowes, chemist and druggist, Horden.

NEWLYN.—At 19 Ilsham Road, Torquay, on August 16, suddenly, Mr. James Newlyn, M.P.S., aged seventy-three.

RAWSTRON.—On August 18, Mr. John William Rawstron, surgical appliance manufacturer, 136 Leeds Road, Nelson.

WRIGHT.—On August 15, Mr. Joseph Colin Wright, 37 Talbot Street, Southport, representative of Reynolds & Branson, Ltd., manufacturing chemists and surgical instrument manufacturers, 12 and 13 Briggate and 14 Commercial Street, Leeds.

## Wills

MR. WALTER SLOAN GALBRAITH, of 20 Fleurs Avenue, Dumbreck, Glasgow, chemist and druggist, left personal estate of the value of £5,493 15s. 9d.

MR. JAMES EDGAR HINDLE, of 22 Montague Street, Blackburn, Lancs., chemist and druggist, left £5,317 15s. 4d. gross, with net personally £2,266 11s. 2d.

MR. THOMAS SWINDELLS, of 263 Manton Road, Monton, Eccles, chemist and druggist, left estate of the gross value of £617 15s. 3d., with net personally £534 13s. 3d.

MR. JOHN WALTER WRIGHT, Burnley, Lancs., chemist and druggist, who died on May 27 last, aged 84 years, left estate of the gross value of £1,323 4s., with net personally £1,269 16s. 2d.

MR. JAMES ALFRED HAY, of 15 Woodbine Avenue, Gosforth, chemist and druggist, who died on March 24 last, left estate of the gross value of £2,465 2s. 1d., with net personally £2,432 7s. 1d.

MR. JOHN WEST LANG, Ph.C., of 6 Silverdale Road, Heaton Norris, Lancs., who died on April 24 last, left estate of the gross value of £5,084 5s., with net personally £3,234 17s.

MR. MILES COWARD, of 15 Gorton Road, Lowestoft, chemist and druggist, who died on March 7 last, aged fifty-six, left estate of the gross value of £5,979 6s. 2d., with net personally £158 2s. 8d.

MR. WILLIAM ASTING GREAVES, of 53 Duckworth Street, Darwen, Lancs., chemist and druggist, who died on June 13 last, intestate, left estate of the gross value of £1,782 10s. 2d., with net personally £1,680 16s. 4d.

MR. JOHN BAIRSTOW, J.P., F.C.S., of Burley Queens Park, Chester, manufacturing chemist, who died on June 19 last, left estate of the gross value of £24,566 6s. 2d., of which £22,851 7s. 2d. is net personally.

MR. JAMES RAEFOED DUTTON BODENHAM, of 27 Aldington Road, Streatham Park, and late of J. Floris, perfumer, 89 Jermyn Street, S.W., who died on May 6, aged eighty-three, has left £45,376 5s. 10d., with net personally £35,569 17s. 4d.

MR. JOHN HENRY BOWKER, of 18 Rose Avenue, Blackpool, and late of Walkley Terrace, Heckmonwike, Yorks, retired chemist and druggist, who died on July 11 last, aged 65 years, left £16,385 2s. 3d., with net personally £15,723 12s. 1d.

MR. ATKIN MCKENZIE, of 5 Park Mansions, Chapel Park Road, St. Leonards-on-Sea, chemist and druggist, who died on March 28 last, aged thirty-eight, intestate, left estate of the gross value of £2,138 16s. 7d., with net personally £702 6s. 3d.

MR. ALGERNON BOULTON, of King Street, Stanford-le-Hope, Essex, chemist and druggist, left estate of the gross value of £3,142 17s. 9d., with net personally £2,096 3s. 3d. Probate of his will has been granted to his widow Mrs. Alice Mary Boulton, of the same address, the sole executrix.

MR. GEORGE BILDERBECK WALKER, of 27 Ulundi Road, Blackheath, S.E., chemist and druggist, for many years dispenser at the Greenwich and Deptford Hospital, who died at Burnham-on-Sea, Somerset, on June 15 last, left estate of the gross value of £1,098 16s. 7d., with net personally £219 7s. 7d.

## Information Department

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/268. Biskama	B/218. Oxydonor (present address)
B/268. Casy cot macintosh	N/198. Sanaora suspensory bandages
E/268. Gynosan	S/268. Shadocul
S/288. Nonpareil elastic bandage	

## Observations and Reflections

By Xrayser III

### Good Advice

to chemists is to be found in the editorial article (*C. & D.*, August 24, p. 234) wherein you point out the importance of being scrupulously particular about descriptions as to qualities of what we sell, not so much because lack of care in this respect may lead to unpleasant notoriety, as because it is not sound policy to describe articles in a way that may tend to mislead the public. Chemists, I think, ought to be more particular about matters of this kind than anyone else, if only because of our claim that professional status is superadded to our classification as tradesmen. If we take and keep the lead in the direction of invariably applying simple and accurate descriptions to anything we sell, we shall reduce to a minimum the risk of being caught out inadvertently by local official snipers.

### National Dispensing

surely means dispensing for the entire nation and not merely a section of it. That appears to be the most important reason why the new and much criticised National Insurance Formulary should not be described as the National Formulary, though it ought to be sufficient reason that there is already a well-known National Formulary published in the United States and enjoying some vogue on this side of the Atlantic. The British Pharmacopoeia is national in its scope; so is the British Pharmaceutical Codex. But a publication which is designed especially for National Health Insurance purposes has a much more limited field, and the limitation should be duly observed if only as a matter of strict accuracy. Apart from this, I should not like it to go forth that the new book issued by the British Medical Association represents fairly, or even approximately, the standard of compounding and dispensing to which we have attained as a nation. Recent disclosures in the *C. & D.* (August 10, p. 157; August 24, p. 223) of what is to be found in the new formulary shake one's confidence in the ability of the representative medical body to produce a satisfactory prescriber's guide, and I should imagine that Insurance practitioners will not be found to approve generally of what has been provided for their use. Both "Scrutator" and Mr. Humphrey rightly urge that distinctive names should have been applied in the National Insurance Formulary to pseudo-B.P. and pseudo-B.P.C. preparations, and everyone interested in the success of the National Health Insurance dispensing service should be in agreement as to the inadvisability of letting it be assumed that inferior preparations may reasonably be supplied to insured persons under names which properly belong to better-class articles.

### An Obvious Weakness

of the National Formulary for National Health Insurance purposes, as your contributors to whom I have just referred point out, is this failure to adhere to the rule that no formula should bear the same title as one in the British Pharmacopoeia, or the British Pharmaceutical Codex, unless identical therewith. One might well apply a stronger term than "weakness" in a case of this kind, in view of the state of affairs revealed by these disclosures, and, having in mind the confusion that may be caused throughout the country as the result of our having thrust upon us a host of preparations differing more or less in composition from others which are well established but bearing the same familiar names. Presumably the object of this bald and unskillful substitution is the saving of expense, but surely that object could have been attained just as well if the substitute preparations had been distinctively named. Observing that the volume has been compiled with the co-operation of the Retail Pharmacists' Union, I am surprised that there appears to be so little evidence in the publication of expert pharmaceutical attention, and one would like to know how the R.P.U. justifies the introduction of so crude and unsatisfactory a production under its *egis*.

### It is News

to learn from your answer to a correspondent, in the very useful Legal Queries column (*C. & D.*, August 24, p. 244), that unqualified persons appear to be entitled to the same exemption as chemists in the matter of selling medicine or medical and surgical appliances after the usual closing hour. This query must be regarded as providing one more instance of a prevailing disposition to assume that so-called chemists' privileges are necessarily restricted to persons whose names are included in the Register of Chemists and Druggists, and it is just as well that we should be made aware of the facts before proceeding to make a fuss about assumed irregularities on the part of those whose names are not so included.

### Is there Any Poisoner

who gets off the beaten track? In an article in one of our leading daily newspapers, that ever-youthful physician Sir James Crichton-Browne says that in the history of homicidal poisoning "nothing strikes one more than the way in which this kind of history repeats itself." It is, indeed, fortunate that this is so—if it is true. But we must not leave out of consideration what is certainly a fact, namely, that not all poisoning cases are discovered. It is remarkable how large a proportion of those that have come to light have done so because of the over-confidence of the poisoner. The case of Palmer is such a well-known one that it is perhaps impossible to say anything about it which has not already been said. He was naturally a bold and enterprising rogue who equipped himself with knowledge of the most dangerous kind. Placed as an apprentice with a firm of druggists in Liverpool, he became well acquainted with poisons at a time when poisoning was rampant throughout the whole country. His instruction in the use of drugs was improved upon by his removal from Liverpool, because of his delinquencies, to be again apprenticed to a surgeon, who in his turn had to dismiss him, but secured him a position as pupil at the Stafford Infirmary. How many people this infamous man poisoned it is not possible to say. Neither can it be affirmed that he always killed his victims with strychnine. Palmer provided himself not only with strychnine, but also with opium, tartar emetic and hydrocyanic acid. A review of the evidence at this time inclines one to the notion that Cook was dosed with tartar emetic as well as strychnine, a combination shrewdly devised to mystify the chemists when the analysis of the stomach contents should be undertaken.

### One of the First Cases

of poisoning by strychnine is often overlooked by those who "write up" these matters. It is a very interesting one for other reasons than on that account. Thomas Griffiths Wainewright was born at Chiswick at the end of the eighteenth century. His maternal grandfather was a friend of Wedgwood and his circle. He himself became well versed in art and literature. The "London Magazine" was the literary medium for a large number of his essays, and "Janus Weathercock" (his pseudonym) took his place in it alongside Lamb, De Quincey, Hazlitt and Proctor. Wainewright's "Essays and Criticisms" are probably little read to-day; but W. Carew Hazlitt considered them of sufficient value to edit them for a volume published in 1880. Upon De Quincey he made a great impression because of the sincerity of his judgments on the chief Italian engravers. The case of Wainewright is an almost exact parallel to that of Palmer. He began his career as poisoner in 1829. His first victim was his bachelor uncle whose house he coveted; in the following year he poisoned his wife's mother (Mrs. Abercrombie), then his sister-in-law (Helen Abercrombie), whose life he and his wife had insured for £18,000. Prior to his career as a poisoner he had forged the signatures of his trustees to an order on the Bank of England for £2,500. When Helen Abercrombie died the insurance companies refused to pay. Wainewright entered an action against them, but it was five years before it was decided against him. The recorded symptoms leave little doubt that strychnine, or nuxvomica, was the agent he used.

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## Editorial Articles

### New Modes of Treatment

MANY warnings have been issued regarding the harmful effects which may be caused by indiscriminate employment of artificial light for curative purposes, yet probably no form of therapeutic treatment has ever become so widely used in so short a time. The advocates of such treatment received a shock, however, on the recent publication of the Report of the Medical Research Council for the year 1927-28 (H.M. Stationery Office, 3s.), while the garbled accounts which appeared in the lay Press caused consternation in some circles—in fact, rejoinders appeared almost before the report was available to the general public, and certainly some of those who made spirited replies could not have read it. The report states that prolonged researches give no scientific reason to suppose that the treatment of rickets, or the supply of vitamin D to the body for any other purpose, is better effected by ultra-violet rays falling on the skin



than by the direct provision of the necessary food values, while the use of the former when the latter suffices is merely wasteful. Experiments to investigate the question of whether or not artificial rays are a satisfactory substitute for the natural sunshine in cities have also been attended with disappointing results. The last report of the chief medical officer of the Ministry of Health shows that the results collected from the artificial light centres provided by local authorities exhibit much variation of opinion; but no objective evidence has been forthcoming that results have been achieved that could not have been gained more cheaply by proper feeding. The increase in the power of the blood corpuscles to dispose of bacteria has been largely used as a justification for the advocacy of light treatment, but this increased bactericidal power of the blood has not yet been correlated with any permanent effects of value in the body. It is quickly followed by a decrease of bactericidal power, which not only soon returns to the normal, but sometimes goes below it afterwards. Moreover, exactly the same effects for good or evil follow inflammation of the skin blood-vessels inflicted by heat or by other irritants than light. There is no present reason to suggest that artificial light can do more in this way than a mustard plaster, which is indefinitely cheaper. Among all the claims made for the value of photo-therapy, some of which are fantastic, there is much concordant testimony to the value of regulated skin exposure to artificial light, as being adjuvant in the cure of infections like some forms of tuberculosis. It may be noted that there have been no equally enthusiastic trials of other stimulants giving inflammatory reactions of the skin which might have identical effects. In most of the observations made there is an element of uncertainty introduced by forms of treatment used with the light, by concurrent changes in food, or by the still unknown influences which visible components of the radiations may have indirectly through the nervous system. Some chronic infections of the eye are cleared up better by photo-therapy than previously, notably the healing of corneal ulcers. There is no equivalent evidence of successful treatment of local skin ulcers. In the case of varicose ulcers it has been found that light had no healing effects so good as those given by the familiar Unna's paste bandages. In regard to the studies of filter-passing viruses and of cancer, it is stated that during the past two years the expectations of Dr. Gye have not been fulfilled, as the results of his experiments have been discordant, but some points under recent study are of interest. It has been found that the disappearance of potency in a tumour filtrate on simple incubation is due to the presence of an oxidising ferment. This was found to be checked by hydrocyanic acid, and that again suggested that the similar inhibitory action of blood-serum was due to an anti-oxidase within it. Dr. Gye in his earliest work had shown the necessity for strict anaerobic conditions in dealing with tumour extracts. Recently Dr. Mueller, of Harvard, has found that cystein, by virtue of its avidity for oxygen, is able to preserve the infectivity of an extract. Mrs. Holmes, working for the Council at Cambridge, has found lately that reduced glutathione acts in the same way, and this is being followed up. Dr. Gye has also turned, for such clues as might be given by it, to a comparative study of a known infecting agent, the filter-passing organism of pleuro-pneumonia of cattle. Here it was found that the action of acriflavine is aided by a natural antiviral action of the blood serum. A very close parallelism between the phenomena found with this virus and those shown by the tumour virus has been observed in all their features, and this is taken as confirmatory evidence of the theory put forward.

The report reviews the progress made in recent years in applying the properties of radium to the treatment of cancer, but it is not pretended that the advances in research work, on its clinical side, have not been tardy here compared to those in other countries. "Reference," it is stated, "is made to the Stockholm or Paris methods, but not yet to the London, Manchester, or Glasgow methods." It is claimed that many who die yearly of cancer might be saved by adequate radium treatment. There is at present a wholly inadequate supply of radium in the country, as well as a corresponding shortage of really trained operators and of available hospital beds. But there is still no such thing as "radium treatment" in the final form as there is, say, antitoxin for diphtheria or insulin for diabetes. Sound treatment for many years to come must depend from day to day on maintained research work, and research work can proceed only as treatment is practised. Every treatment centre must be a research centre and vice versa. At three centres, the Middlesex Hospital, London, the London Radium Institute, and at Cambridge (with co-operation given by St. Bartholomew's Hospital, London), radium has been assigned and used for laboratory studies of a fundamental kind in what may be called "radio-biology." Actions of radium on the living cell in growth and in rest have been investigated, and results likely now and certain in the end to bring practical help of the most direct kind to the clinical treatment of cancer have been obtained. Other progress reviewed in the report includes "Research Work in the Empire"; "Curative Treatment of Pernicious Anæmia"; "Disease in Coffee and in the Milk Supply"; and "Distemper in Dogs." Summaries are given. The work has been carried out at the National Institute for Medical Research.

### The Position of Shellac

DURING the last three months current supplies and deliveries of shellac have been remarkably well balanced upon the whole, thus leaving the London statistical position much as it was at the end of April. This, perhaps, is in some degree responsible for the conspicuous stability noted over that period, notwithstanding the fact that available stocks, as recorded at the end of July, are still fully double those of a year previous. Much the same state of affairs has characterised the Calcutta market, where prices have fluctuated narrowly, varying between about 90 and 95 rupees, according to delivery. There has been no pronounced activity on this side recently, either on trade or speculative account, while dealers, as a rule, do not seem to adopt any particularly optimistic views as to the future course of the market, and the quantities held in London warehouses are ample enough to meet trade needs for about four months hence. As we already suggested on May 25 last (*C. & D.*, p. 633), there has been clear evidence of resistance in the market to adverse statistical features on this side. In the earlier part of August there was a sudden burst of strength in the primary market, where quotations were advanced to fully 95 rupees. This was apparently due to some pressure of covering operations by dealers in connection with the fulfilment of shipping contracts, but prices in Calcutta have not since reacted to any important extent, which gives one the impression that the Calcutta position is well in hand. Stocks in London, although large, appear to be firmly held with the spot quotation for usual standard T.N. Orange at a margin varying around 10s. per cwt. over c.i.f. costs for near arrival. The spot quotation recently reached fully 210s. per cwt. for cases, in a sensitive market, but fluctuated last week down to

197s. 6d., in spite of an absence of pressing c.i.f. offers, or of any important increase in the arrivals so far this month, although the total already accounted for exceeds the abnormally small returns for last month, which amounted to 3,156 cases, against deliveries of 4,281 cases. The fact has to be noted that the Calcutta shipments for the first half of August were again comparatively light, and only slightly in excess of the same period last year, while the proportion shipped to the United States is 7,916 cwt., out of the total to all ports of 20,595 cwt. Satisfactory accounts continue to be received about the American demand, and prospects in the manufacturing branches there for the autumn are considered encouraging. The highest and lowest spot quotations reached in this market during the past two years and since, were approximately as follows:—

Orange T.N. spot per cwt.	Highest	Lowest	Closing price
	s. d.	s. d.	s. d.
1927 .. ..	270 0	152 6	250 0
1928 .. ..	257 6	172 6	200 0
1929 (to date)	210 0	195 6	197 6
			(Aug. 24)

It will be seen that despite the marked growth in London stocks, which amounted at one period this year to about 29,000 cases, against 19,469 cases at the close of last year, there has been no important depreciation in the price so far this year, the lowest figure being about 195s. 6d., from which there has been a recovery to 210s., and the latest quotation is still fully equal to that current on December 31 last. The figures (cases) given below show the monthly averages of incomings and outgoings with stocks covering the last four years and to date:—

London	Monthly averages		Stocks at end of period
	Landings	Deliveries	
1925 .. ..	4,918	4,831	10,847
1926 .. ..	5,515	5,078	15,894
1927 .. ..	6,811	6,883	15,371
1928 .. ..	7,463	7,122	19,469
1929 (Jan.-July)	7,172	6,000	27,737 (July 31)

The average of the deliveries so far this year at only 6,000 cases may seem rather striking compared with the preceding two years. The average for last year was exceptionally heavy, while there is no doubt that incidental to the heavy decline in the price then to 172s. 6d., users stocked up freely. At the same time, the unfavourable comparison is somewhat curious, compared to the end of April, when the monthly average amounted to nearly 7,000 cases. However, for some reason or other, the deliveries for June and July were relatively small. It is well to bear in mind that considerably larger quantities of shellac have been shipped for some months past from Calcutta direct to the Continent and various foreign countries outside of the United States. Evidently this would account in some measure for part of the shrinkage in the outgoings from this end. The world's consumption of shellac at any rate is much more widely spread than it was some years ago, and it is not unreasonably assumed that its merits or possibilities have been to that extent enhanced.

In appreciation of the South African Cricket Association, Sir Harry McGowan, a director of Imperial Chemical Industries, Ltd., has handed the manager of the team a cheque for £250.

MR. C. COUSINS (Tibo Products (International), Ltd.) is sailing for Cape Town by the s.s. *Ceramic* on Aug. 31, and will proceed to Durban to take up the position of assistant manager with Tibo Products of South Africa (Pty.), Ltd.

## An Australian in London

By Martin Rushton

THE Editor has been good enough to offer me space, and I gladly respond if my remarks may be taken as personal impressions. I am interested in National Health Insurance, and want to learn all I can about it; but that is for Australian consumption, so that if and when it comes we may not be taken unawares.

London I find dirtier, busier, livelier than ever, and yet more fascinating; it is spreading out its tentacles in every direction. The village with its High Street of shops and its villas with gardens is being absorbed; the housebreaker comes in, the ferro-concrete flat arises, and progress is satisfied—to an extent. The tubes, in their infancy when I was here twenty-three years ago, are a necessity now; they move a population equal to that of Australia every week; but the congestion of the road traffic is worse than ever, and now another set of tubes is projected for goods traffic, and the lumbering cart and lorry must go; when this is finished, what next—shall we all have our private 'planes?

Wherein does the charm of London lie? In its ever-changing variety, in its extremes and wonderful inconsistencies. In spite of its roar, din and discomfort, you are sensible that you are in the very heart of the mightiest Empire of all time; events happen here, and if not here you get them hot and hot in the Press. You come out of St. James's Park Station, the rawest new building with the most-questioned statuary, and within 150 yards you are in the old-world charm of Queen Anne's Gate, where the knockers and the carved wood porticoes are a delight to the eye; link extinguishers are at No. 26, and you can see others at Chatham House, St. James's Square, where Chatham, Derby, and Gladstone lived. You see a commercial building—modern, raw, efficient—a sign of progress, and within 150 yards an old Inn of Court. You go to Fenchurch Street to see the noble building that Lloyds has raised, and suddenly you come upon Fenchurch with its three graves. You spend time to get to Wimbledon for the tennis, and are rewarded.

The funniest craze, to an Australian visitor, seems to be dogs; it is not only ladies of uncertain age—unappropriated blessings—but schoolboys, good honest citizens, retired army colonels, who have a dog in harness and lead in hand. I got tangled up with one in a Glasgow 'bus, and two men; and a high society dame brought one into the dining-room of the leading hotel in one of your cathedral cities against the printed rules of the place—and no one had the courage to order it out. Your postmen, and above all your policemen, are wonderful as ever; but it is strange to see postmen delivering letters at nine o'clock at night; as for the others, I am glad to see they are less servile, but they are certainly less civil.

The most noticeable feature of all is red tape; everything must be done "just so"—a man is trained up in a certain groove, and while he obeys orders he is right. Now the Australian is by no means so perfect as he thinks; but he is efficient and adaptable to a great degree, and you do miss it. I have been asked as to opportunity in Australia: I make answer as I did twenty-three years ago. If you are doing well, or if you are doing fairly well, stay where you are; if you are "up against it," come out. But, mind, Australia has no room for the idle man; and if you want to get on take any job that is honest work, and hang on to it until you are in a position to command a better.

**DOSE BOOK.**—The sixth edition of Stirling's Dose Book, containing strengths and metric equivalents, is now available. It is published at ls., post free, by John Gover, 41, Voltaire Road, S.W.4.

**WRONG MEDICINE IN AN EPITAPH.**—A correspondent of "The Morning Post" has copied the following epitaph in an ancient churchyard in Shetland:—"... He was a peaceable quiet man, and to all appearance a sincere Christian, and his death was very much regretted, and was caused by the stupidity of Lawrence Tulloch in Cloicheston, who sold him nitre instead of Epsom salts, by which he was killed in the space of five hours after taking a dose of it."



## Ships' Medical Scales

THE Board of Trade has issued a pamphlet (Stationery Office, 4d.) setting forth the scales of medicines, medical stores and medical instruments for merchant vessels. Scales I and II (applicable to ships which are required to carry surgeons) are unchanged for the present, though their revision is under consideration. Scales III and IV have been revised with the assistance of an informal committee consisting of representatives of the Board of Trade, the Ministry of Health, the Chamber of Shipping of the United Kingdom, the Liverpool Steamship Owners' Association and the Shipping Federation, Ltd. This revision has been made in connection with the new edition of "The Ship Captain's Medical Guide." The principal changes are set forth in a prefatory note; the most interesting of these is the substitution of chlorination for filtration in purifying water. Appendix A consists of a list of approved disinfectants, together with the conditions of approval. The scales came into force "forthwith" (presumably on July 24, the day of issue of the pamphlet) as regards new ships, and, in the case of other ships, are to come into force on July 1, 1930. We omit quantities:—

### Scale III.

*For Ships having Less than 100 Persons on Board except Ships to which the Emergency Scale Applies—*

Alum. pulv., spt. ammon. aromat., acidum aetilsalicylicum (in 5-gr. tabs.), mist. sennæ co., lotio hydrarg. nigra., acidum boricum cryst., hydrarg. subchlor. ( $\frac{1}{2}$ -gr. tabs.), oleum acidi carbonici, liquid disinfectant of approved quality, oleum ricini, tinct. chlor. et morph. co. B.P. 1885, creosotum, potass. permang. (1-gr. tabs.), magnes. sulph. (in 1-oz. packets), sol. cocaine, hydrochlor. 0.5 per cent. in oil. ricin. with hyd. perchlor. 0.033 per cent., tinct. benzoin. comp., liq. plumbi subacet. fort., tinct. iodi (double B.P. strength), dusting powder (pulv. amyli, acid. boric., zinci oxid. equal parts), tinct. opii, potass. chloras (5-gr. tabs.), sodii carbonas commercial, cataplasma kaolin. (in  $\frac{1}{2}$ -lb. sealed tins), Charta sinapis (in tins of 1 doz.), oleum olivæ, pil. hydrarg. 4-gr. (gelatin coated), pil. coloc. et hyoscyam. 4-gr. (gelatin coated), tab. laxative vegetable (ext. coloc. co. gr. 1, ext. jalapæ gr.  $\frac{1}{2}$ , podoph. resin, gr.  $\frac{1}{2}$ , leptandrin, gr.  $\frac{1}{2}$ , ext. hyoscyami virid. gr.  $\frac{1}{2}$ , ext. taraxaci gr.  $\frac{1}{2}$ , ol. menth. pip. q.s.), tab. phenacetin. comp. (5-gr.), pulv. ipecac. comp. (5-gr. tabs.), quinin. bisulph. or bihydrochlor. (5-gr. tabs.), zinci sulphat. sulphur rotund., lin. terebinth. ung. acidi boric., ung. hydrarg. subchlor. (30 per cent.), ung. hamamelidis comp. (ung. hamamelidis 87 parts, bismuth. subgallat. 10 parts, benzamin. lactat. 3 parts), ung. hydrarg. ung. sulphuris, ung. hydrarg. ammon., paraffinum molle, digitalis folia (1-gr. tabs.), amyl nitrite capsules (3 min.), paraldehyde, potass. bromid. (5-gr. tabs.), calx. chlorinata (stabilised) in  $\frac{1}{2}$ -lb. tins, lysol.

Bandages—W.O.W.—1" 3 yds., 3" 4 yds., 6" 6 yds., triangular. (a) Lint—plain white—2"  $\times$  4" packets (small), 6"  $\times$  12" packets (medium), 12"  $\times$  24" packets (large).

(b) Lint, borie—2"  $\times$  4" packets (small), 6"  $\times$  12" packets (medium).

(c) Lint, picric—2"  $\times$  4" packets (small), 6"  $\times$  12" packets (medium), 12"  $\times$  24" packets (large).

(d) Gauze, plain white—12"  $\times$  6" packets (small), 24"  $\times$  9" packets (medium), 24"  $\times$  24" packets (large).

(e) Cotton-wool, plain white, interleaved, rolled—1 oz. 2" wide packets (small), 1 oz. 3" wide packets (medium), 1 oz. 6" wide packets (large).

(f) Adhesive plaster—on reels—1" reel 5 yds., 3" reel 5 yds., safety pins (assorted sizes), waterproof cambric, bottles (6-oz. graduated tablespoons), bottles (2-oz. fluted poisons), corks (assorted to fit 2 and 6 oz. bottles), wood applicators for throat, boxes, ointment (nested), labels, plain (in packets of 100), labels, poison (in packets of 50), measure, graduated 2-oz. conical glass (Mason's wine), measure, 2-drachm conical glass, graduated drops and minims.

(g) Douche can, 1 quart, nozzle for douche can—urethral pipe, metal (Janet pattern), nozzle for douche can—cannula, vulcanite, nozzle for douche can—ear, metal, eyeshades (cardboard), basin lettered "Medical," bed pan, enamel iron (large size), hot water bottles, 8  $\times$  12 inch rubber with flannel cover, stomach tube, red rubber with funnel (18-20 gauge), splints (set of common), stretcher: an efficient carrying stretcher, abscess knife (Paget's), dressing or dissecting forceps, eyespud, scalpel, scissors, 5-inch (one blade sharp-pointed and the other blunt-pointed), tourniquet, St. John pattern.

(h) Soft oil-catchers, spatula or palette knife, splinter forceps, Spencer Wells' artery forceps.

(i) Silk and needles, clinical thermometers in metal case, canvas roll for instruments, suspensory bandages with understraps, truss, single reversible 35 inch, truss, single reversible 37 inch, truss, double 36 inch, "Ship Captain's Medical Guide."

### STOMACH MIXTURE

Sodii bicarb. . . gr. 10  
Magnes. carb. leviss. . gr. 10  
Spt. ammon. aromat. min. 20  
Tinct. zingib. . . min. 10  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water every four hours. Good for indigestion, pain in the stomach, wind, etc.

### COUGH MIXTURE

Vin. ipecac. . . min. 10  
Acet. scillæ . . min. 15  
Tinct. camph. co. . min. 30  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water every four hours. Good for coughs and colds.

### SWEATING MIXTURE

Potass. acet. . . gr. 20  
Potass. citr. . . gr. 20  
Liq. ammon. acet. conc. (1-7) . . min. 15  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water every four hours. Good for cases of feverish colds, influenza or any case where the skin is hot.

### TONIC MIXTURE

Tinct. nucis vom. . min. 5  
Acid. nitro-hydrochlor. dil. . min. 5  
Quinin. sulphat. . gr. 1  
Tinct. gentianæ co. min. 30  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water three times a day before food. Good for weakness, loss of appetite, debility and after illness.

### Scale IV—Emergency Scale

*For ships sailing from the United Kingdom on Shorter Sea Trades to Western European Ports between Narvik and Corunna inclusive, including Baltic, Gulf of Finland, and Gulf of Bothnia South of a Line Helsingland to Wasa inclusive.*

Spt. ammon. aromat., acidum aetilsalicylicum (in 5-gr. tabs.), acidum boricum cryst., oleum ricini, tinct. chlor. et morph. co. (B.P. 1885), sol. cocaine, hydrochlor. 0.5 per cent. in oil. ricin. with hyd. perchlor. 0.033 per cent., tinct. benzoin. comp., liq. plumbi subacet. fort., tinct. iodi (double B.P. strength), tinct. opii, charta sinapis (in tins of 1 doz.), pil. coloc. et hyoscyam. 4-gr. (gelatin coated), magnesium sulphat. (in 1-oz. packets), lin. terebinth. ung. acidi boric., ung. hydrarg. paraffinum molle, lysol.

Bandages—W.O.W.—1" 3 yds., 3" 4 yds., triangular. (a) Lint—plain white—6"  $\times$  12" packets (small), 12"  $\times$  24" packets (large).

(b) Lint—borie—2"  $\times$  4" packets (small), 6"  $\times$  12" packets (medium).

(c) Lint—picric—2"  $\times$  4" packets (small), 6"  $\times$  12" packets (medium), 12"  $\times$  24" packets (large).

(d) Gauze—plain white—12"  $\times$  6" packets (small), 24"  $\times$  9" packets (medium), 24"  $\times$  24" packets (large).

(e) Cotton-wool, plain white interleaved rolled—1 oz. 2" wide packets (small), 1 oz. 3" wide packets (medium), 1 oz. 6" wide packets (large).

(f) Adhesive plaster—on reels—1" reel 5 yds., 3" reel 5 yds., safety pins (assorted sizes), bottles (6-oz. graduated tablespoons), bottles (2 oz. fluted poisons), corks (assorted to fit 2 and 6 oz. bottles), boxes, ointment (nested), labels, plain (in packets of 50), labels, poison (in packets of 25), measure, graduated 2-oz. conical glass (Mason's wine), measure, 2 drachm conical glass, graduated drops and minims, eyeshades (cardboard), aenema syringe (Higginson), splints (set of common), scissors, 5-inch (one blade sharp-pointed and the other blunt-pointed), tourniquet (St. John pattern), splinter forceps, Spencer Wells' forceps.

(g) Silk and needles, clinical thermometer in metal case, suspensory bandages with understraps, truss, single reversible 36 inch, truss, double 36 inch, "Ship Captain's Medical Guide."

### STOCK MIXTURES

The three mixtures selected are the Stomach Mixture, Cough Mixture and Sweating Mixture printed above

### CRAMP OR COLIC MIXTURE

Tinct. capsici . . min. 10  
Tinct. belladonnæ . . min. 3  
Tinct. opii . . min. 5  
Ext. glycyrrhizæ liq. min. 5  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water. Good for cramp in the muscles of the stomach, legs and arms.

### SEDATIVE MIXTURE

Chloral hydrat. . . gr. 5  
Potass. bromid. . . gr. 15  
Spt. chloroform . . min. 10  
Liq. cocci . . min. 1  
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water when required (Not more than four doses in a day.) Good for sleeplessness, irritability, over-excitement, etc.

### CLAP MIXTURE

Tinct. hyoscyami . . min. 15  
Potass. citr. . . gr. 20  
Inf. buchu conc. (1-7) dr.  $\frac{1}{2}$   
Aquam . . ad fl. oz.  $\frac{1}{2}$

Dose—One tablespoonful in half a cupful of water every four hours.

### CALAMINE LOTION

Calamine prep. . . oz. 2  
Zinc. oxid. . . oz. 1  
Glycerin . . oz. 1  
Liq. calcei . . ad fl. oz. 20

For external use only. Good for skin complaints, such as eruptions, eczema and breaking out; also for burns. Chloroform, 1 minim to the ounce to be added to all mixtures. Ordinary table water and not distilled water is to be used.



## New Zealand Kauri Gum

AN interesting article dealing with the local situation in kauri gum is published in the "New Zealand Herald," in the course of which it is stated that a distinct improvement in the demand is noted, the movement being marked by an advance of £2 to £10 a ton on prices previously ruling, this tendency being due to diminishing stocks in Auckland stores and on the gum fields, and to the decline in production during the past two or three years. Many diggers have left the fields because gum-digging had become unprofitable, but if the present revival of interest should prove permanent these men should again find employment. The trade is, however, anxious lest prices may be forced up to a level that will again restrict the overseas demand. They emphasise that manufacturers, particularly American, have shown a remarkable aptitude for utilising to advantage the cheaper substitutes from Africa and elsewhere, which they were induced to try during the period of high prices for kauri. The value of the trade to Auckland in the past will be readily seen from the following table of production and exports during recent years:—

Year to Dec.	Produced Tons	Exported Tons	Value £	Average per ton £ s. d.
1913 ...	9,598	8,475	790,338	93 5 0
1918 ...	2,687	2,419	157,315	65 0 0
1920 ...	5,655	6,418	356,700	85 15 0
1921 ...	4,331	3,901	357,900	94 0 0
1922 ...	7,005	6,391	565,300	88 0 0
1923 ...	6,502	6,598	596,200	91 0 0
1924 ...	5,434	5,261	443,502	84 8 0
1925 ...	5,068	5,398	416,722	77 4 0
1926 ...	4,250	4,877	352,765	68 4 0
1927 ...	3,820	4,674	278,632	59 12 0
1928 ...	4,003	4,394	240,139	54 13 0
1929 (5 months)	805	1,105	60,190	54 8 0

The marked fluctuations in the average price obtained for the total shipments each year must not necessarily be taken as a correct indication of a rise or fall in the market, for in a commodity ranging in price from £15 to £250 a ton it only requires a little less of one quality and a little more of another to make a substantial difference to the average price obtained. One very striking feature in the returns is the excess of exports over production during the past four years, and this is corroborated by the visible diminution in the stocks held in Auckland. The excess is probably even more than is shown in the returns, for a good deal of the gum is more or less damp on arrival, losing in weight before it is packed for shipment. The heavy shrinkage in Auckland stocks is no doubt partly responsible for the present renewal of interest on the part of overseas buyers. But whether it is due primarily to these reduced stocks or to a genuine revival in the trade overseas the change is of direct importance to the large number which the trade sustains and also of indirect importance to the whole community. It is suggested that if assistance were given to diggers at present in Auckland, of whom there are reported to be a considerable number, by advancing them enough to establish them on the fields it would be a real contribution to the unemployment problem. Many of the displaced diggers, however, have already been absorbed on public works and it would require a definite and permanent improvement in the kauri gum trade to attract them back to their former occupation.

A new branch has been added to the kauri gum industry in North Auckland, as mentioned in the *C. & D.* (December 8, p. 713), by the application of a method to extract gum from the limbs and roots of kauri trees, now lying strewn over thousands of acres of the gum-fields. It is claimed that the operation of the process is a profitable commercial undertaking. In October last the first extracting works of their kind in the Dominion commenced operations at Babylon, four miles north of Dargaville. They are styled the Kauri Gum Extracting Works, and are owned by a New Zealand firm, A. C. McArthur & Co., Ltd. The success of operations to date has been most encouraging. The tall iron building standing in a lonely countryside has aroused considerable

interest, and, as admission is strictly prohibited, speculation has been rife as to what was going on within. Years of research by a young scientist, Dr. R. G. Israel, stand behind the factory and the patented process of extraction which is its life.

### SIDE-LINE FOR FARMERS

The wood which is being treated had formerly been looked on by the farmer as rubbish, and thousands of pounds' worth of gum must literally have "gone up in smoke." Now, with a ready market at hand for his erstwhile rubbish, the farmer is only too eager to sell his wood at 10s. or 12s. a ton, and thereby an added inducement is offered him to clear his property. Some of the wood, which in the past has been ruthlessly burned, has been found to yield a considerable percentage of pure gum. The factory gives work to ten men, and some fifty find employment for two or three months a year in gathering supplies of wood. The limbs and roots, when treated, are first passed through a chute into a chipping machine, which reduces a block as large as an ordinary fence post to fine chips in a matter of seconds. The chips are then raised to the top of the building by a bucket elevator, and are carried into two conical hoppers, about 12 ft. in diameter. In a few minutes the hopper is filled, a trap is opened, and the chips fall into the patented extractors on the floor below.

It is here that the secret lies. The chips are treated with alcohol and benzol and the gum is released in liquid form. By a special steaming process, the alcohol is regained in a diluted form, and the chips are carried in trucks to the boiler-house, to be burned with a mixture of coal. The gum is run into 200-lb. drums, made on the premises, and in a few hours sets hard. The complete process occupies twenty-four hours. Three grades of gum are manufactured—pale, ruby and brown.

### COMMERCIAL USES OF PRODUCT

The gum produced by the extraction process has been exhaustively tested in England and the United States, and has been declared superior to dug gum. Its acid content has been found to be lower than that of dug gum, and it has been found suitable for use in the nitro-cellulose industry. Shipments have already been sent to England, America, Australia and the Continent, and have met with a ready market. The darker grade is used in the manufacture of linoleum, while a lighter grade takes the place of shellac and can be produced at a much lower cost. The supply of kauri on the ground surface alone bids fair to last for many years, and beneath the ground there are further reserves in roots and buried limbs. The factory is not yet working to full capacity. The clay roads in the district are a handicap in the industry, as they are workable for only about six months a year. The most modern machinery has been installed, and wherever possible this has been purchased in New Zealand.

## India's Drug Trade

THE total import trade of India in drugs and medicines, excluding chemical and narcotics, amounted in the year 1928-29 to Rs.202 lakhs in value compared with Rs.193 lakhs in the previous year. The largest item in the trade consisted of proprietary and patent medicines which were valued at Rs.42 lakhs, against Rs.29 lakhs in the previous year. It is interesting to note that imports under this item have been increasing steadily for some years past. Imports of quinine salts amounted to Rs.24½ lakhs, against 23½ lakhs in the previous year. Preparations of opium and morphine amounted to Rs.108,000, morphine Rs.27,090, cod-liver oil Rs.1,30,000, cocaine Rs.18,000, saccharin Rs.112,000, and other sorts Rs.100 lakhs. The imports of camphor rose from Rs.25 lakhs to Rs.27 lakhs, of which Rs.18 lakhs worth was supplied by Japan, and Rs.8 lakhs worth by Germany. Lastly asafetida imported was valued at Rs.208,000. The exports of drugs and medicines from India during the same year amounted to Rs.41 lakhs in value. Cinchona bark was valued at Rs.90,000, nux vomica at Rs.3 lakhs, senna at Rs.9 lakhs, and other drugs at Rs.29 lakhs. The total exports of drugs in the previous year were valued at Rs.34 lakhs.

## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

### 42 Cannon Street, E.C.4, August 29

THERE is an all-round lack of interest in the Mining Lane produce markets this week, probably due to the fact that the peak of the holiday season has now been reached, and it is unlikely that any noticeable improvement will set in for another fortnight or so. The virtual settlement of the Reparations problem at The Hague Conference should tend to infuse a little more confidence in shouldering new commitments. Slightly more activity has been noted lately in sugar at the reduced level of prices, but the outlook does not inspire confidence, on account of the excellent crop forecasts in beet sugar on this side and on the Continent, although Cuban sales should be more closely controlled under the single selling Agency. Rubber has been firmer again, despite the heavy increases shown in the home stocks, while demand has been towards expansion. Shellac has been inclined to dullness. Sudan acacia gums are extremely firm in view of the shortage and the negligible quantities in the principal consuming countries. Cod-liver oil has been fairly active and the price has still a rising tendency owing to the strong statistical position in Norway. Senega to arrive has hardened somewhat, while spot is rather lower. Menthol is inactive and easier. Opium is firmer at the source, with a strong undertone. Carnauba wax has been in slightly increased demand. Among the aromatic seeds, coriander for shipment has again declined; mustard is firmer, and Dutch caraway slightly easier on spot. In essential oils, star anise is extremely scarce on the spot and again higher; citrus oils are offered at lower prices for new crop to arrive. Conditions throughout the pharmaceutical chemicals market have been sluggish throughout and quoted prices remain as they were. There is a lack of interest in the industrial chemicals market, with no price alterations of consequence. Among the fixed oils, quiet markets are reported with no changes of importance. Linsed in forward positions is slightly firmer. Castor, cotton and soya are steady. In the metal group, Chinese antimony is rather dearer and crude is nominal. Mercury has shown a harder tendency, with no decided change.

Higher	Firmer	Easier	Lower
Anise oil (star)	Antimony	Caraway seed	Bergamot oil
Cardamoms	(Ch. reg.)	(spot)	Coriander seed
(auction)	Chamomiles	Cloves (Zan.)	(c.i.f.)
Mercury	Linsed oil	Menthol	Juniper berries
Spearmint oil	(forward)	Pepper	Leucol oil
	Mustard seed	Pimento	Senega (spot)
	Opium	(forward)	
	Rubber		
	Senega (c.i.f.)		

### Crude Drugs, etc.

AGAR AGAR is quiet, with No. 1 Kobo offering at 4s. 1d. per lb. on the spot, and at 3s. 9d. c.i.f. to arrive.

ANTIMONY is steady, but Chinese is again dearer, with parcels on the spot held for £32 15s., and there is rather more interest shown, although buyers are not eager to follow the advance. C.i.f. terms for shipment are fully £30 10s. English regulus is obtainable down to about £47 10s., but leading refiners are still quoting £52 to £52 10s. Chinese crude on the spot is nominal at about £26. Refiners are showing no interest. Chinese white oxide is £35 15s. per ton.

BALSAM TOLU is neglected at from 4s. 3d. to 4s. 6d. per lb. on the spot, and at 3s. 9d. c.i.f. to arrive.

CADMIUM.—Business is not very active, but there continues to be a fairly regular demand, with Australian or Canadian agents quoting 3s. 11d. per lb. for small lots, and slightly less for good-sized parcels. Small quantities are offering from the Continent on somewhat cheaper terms.

CANTHARIDES.—Russian are offered at 1s. 5d. and Chinese at 1s. 4d. per lb. on the spot.

CAMPOR (REFINED).—Japanese 2½ lb. slabs are steady at 2s. 5d. per lb. on the spot; 4-oz. tablets are quoted at 3s. 5d. and flowers at 2s. 10d. per lb.

The exports of camphor from Japan during the six months ended June 1929 compared with the corresponding period of 1928 and 1927 were as follows:—

	1927	1928	1929
Kin	1,838,200	1,795,700	2,761,500
Yen	3,032,225	2,763,311	3,869,935

CARDAMOMS.—At auction on August 22, 89 cases were offered, and 70 sold at slightly higher prices, comprising Ceylon Mysore, good bold smooth bleached at 7s. 4d., small 4s., very small 3s. 7d. Bold splits 5s. 5d., medium 4s. 2d., small 3s. 5d., very small 3s., unsplit brown and green 2s. 11d. Good extra bold 7s. 7d., medium bold 4s. 11d., small 3s. 8d. to 3s. 10d., bold brown 4s. 9d., medium 4s. to 4s. 2d. and small 3s. 4d.

CHAMOMILES.—With a fair amount of buying, prices of first white Belgian of the new crop are firmer at from about 220s. to 230s. per cwt. on the spot. Buyers are reticent until definite news of the new crop is received.

CLOVES are dull, Zanzibar selling at 1s. 1½d. per lb. on the spot, August shipment is 10d., August-October 9½d. c.i.f., and October-December 9½d. c.i.f. The landings of Zanzibar in London during the week ending August 24 were 20½ and the deliveries 135, leaving a stock of 1,530, against 4,728 in 1928 and 12,099 in 1927; the stock of Madagascar is 396. The landings of Zanzibar to date have been 5,034, against 12,422 in 1928, and the deliveries 5,891, against 15,375 in 1928.

COCOA BUTTER.—Prime English is quoted at 1s. 2½d., C.F.R. at 1s. 3½d. and Van Houten's "A" at 1s. 3d. per lb. in not less than one-ton lots.

COD-LIVER OIL.—The recent firmer tone is well maintained and a fair amount of business is being done. Prices of finest brands of Norwegian medicinal oil range from 100s. to 110s. per barrel, c.i.f.

COTTON OIL is quoted at 8s. 4d. per lb. on the spot.

GALLS are steady, Chinese offering for September-October shipment at 55s. per cwt. and plum-shaped at 56s. c.i.f.

GUM ACACIA.—Practically the same features prevail this week as last, except that the Continental re-sale parcels which were coming to this market are not now so freely offered, and as stocks there become reduced they cannot be replaced, except at higher figures. The market, although quieter, may be called steady to firmer. Current prices are: Cleaned Kordofan has been sold up to 130s., with acacia asking 135s.; natural has been sold up to 122½ spot, sellers asking 130s.; September arrivals have been done at 120s. for cleaned and 115s. c.i.f. for natural. New crop for December-January has been sold up to 90s. c.i.f. for cleaned and 96s. c.i.f. for natural, with sellers at 95s. and 92s. 6d. c.i.f. respectively. January-February has been sold at 85s. and 82s. c.i.f. respectively, with further sellers, February-March at 80s. c.i.f. for cleaned and 76s. c.i.f. for natural. More interest has been shown in bleached, up to 160s. spot having been paid, and still higher prices are anticipated. Talha is steady on spot at 62s. 6d. and at 56s. c.i.f. for September arrival; business has been done in December-January shipment at 45s., and January-February at 43s. c.i.f., but sellers now only offer the latter shipment at 45s. c.i.f.

The exports from the Sudan from January to June amounted to 13,526 tons, against 15,948 tons for the corresponding period of 1928. The chief buyers were: Great Britain 2,392 tons, U.S.A. 3,331 tons, France 2,073 tons and Germany 2,429 tons. The respective figures of these countries for January to June 1928 being 2,849, 3,633, 2,846 and 2,218 tons.

HENBANE LEAVES are becoming scarce, little of the Hungarian being available. Belgian offer forward at from 70s. to 80s. per cwt., according to holder.

IPÉCACUANHA is quiet, with Matto Grosso offering at 14s. per lb. and Minas at 13s. on the spot. A small lot of Cartagena just arrived is offered at 12s. 6d.

JUNIPER BERRIES are cheaper, with fair Italian offering at 23s. per cwt. on the spot.

LIME JUICE is slow of sale, but still very dear, and the prospects are for a dear season again next year. Current values range from 4s. to 5s. per gallon.

MAGNESIUM is very steady and practically dominated by British makers, in the absence of any important quantities offering from abroad. Terms for small sticks and bars range from 3s. 3d. up to 3s. 9d., and for ribbon from 11s. to 14s., while wire is quoted at 7s. 6d. to 12s. 6d., and powder varies from 4s. 6d. up to 7s. 6d. per lb., according to quality and quantity.

MERCURY.—The market tendency has certainly been harder, but there has been as yet no great change in the position. Quotations given by the larger sellers range from £22 5s. to £22 10s. per bottle, but terms elsewhere vary up to £22 15s., which refers to small lots on the spot, less the customary discount. It is understood that



so far there has been no alteration in the attitude of the Combine, and the f.o.b. price quoted remains at £21 15s. per bottle. The outlook is thus still obscure and very uncertain, in view of the heavy accumulations held at the mines. An announcement in regard to the marketing of the metal by the Mercurio Europeo is given on p. 255.

**MENTHOL** is easier at 19s. per lb. on the spot for Kobayashi-Suzuki, and for September-November shipment 16s. 9d. c.i.f. is quoted.

The exports of menthol from Japan during the six months ended June 1929 compared with the corresponding period of 1928 and 1927 were as follows:

	1927	1928	1929
Kia .. .. .	211,100	181,400	194,500
Yen .. .. .	2,223,766	2,218,723	2,265,402

**PEPPER** is firmer. Fair bulk Singapore is 1s. 3½d. spot; to arrive, June-August shipment is 1s. 2½d. and October-December 1s. 2d. c.i.f. Lampong is 1s. 4½d. spot. Sales to arrive include August-October at 1s. 1½d. to 1s. 2d. and October-December at 1s. 1½d. to 1s. 2d. per lb. c.i.f. White Muntok is firmer at 2s. 4½d. spot; August-October has been sold at 1s. 1½d. to 1s. 1½d., and October-December at 1s. 1½d. c.i.f.

**PIMENTO**.—The spot price is unchanged at 1s. 2d. per lb.; forward prices are easier, sales including August-September at 11s. per cwt. c.i.f., with sellers of August-October at 110s. c.i.f.

**RUBBER**.—Since our last there has been a slight recovery, and spot is about ½d. better on the week; trade, however, remains very slow, most of the buying being from hand to mouth, in spite of the recent decline in values. Importers are trying their utmost to hold the market, and it remains to be seen as to whether they will succeed, as the support accorded them is not very powerful. Arrivals last week totalled 2,514 tons, whilst deliveries were 1,436 tons, showing a further increase of 1,078 tons in the stocks. The London stock now stands at 34,651 tons, against 32,815 tons at the corresponding period last year. Since the beginning of the year, the London stock has increased by 14,922 tons. Quotations (Wednesday, 5 p.m.), No. 1 standard ribbed smoked sheet, spot and August, 10½d.; September, 10½d.; October-December, 10½d.; January-March, 11d.; April-June, 11½d. per lb.

**SEEDS**.—**ANISE**.—Spanish is 6½d. 6d. and Russian is offered at 27s. spot. **CANARY**.—The market remains dull with sellers of Mazagan on spot at 24s. 6d. per cwt., and for shipment 24s. c.i.f. is quoted. Saffi is 24s. on the spot. A parcel of Tangier has been sold for shipment at 22s. 3d. c.i.f. **CUMIN**.—Malta remains at 70s. on the spot and Morocco can be had at 67s. 6d. Morocco for shipment is 58s. c.i.f. **FENUGREEK** on spot is 21s. and for shipment, business has been done at 17s. per cwt. c.i.f. **CORIANDER** for shipment has again declined, sellers now offering at 9s. 1½d. to 9s. 4½d. c.i.f. Spot is quoted at 11s. **LAVENDER** on spot is firm at 23s. 6d. per cwt. and at 22s. c.i.f. for shipment. **FENNEL** is unchanged at 6½d. 6d. spot and 60s. c.i.f. for September-October shipment. **MUSTARD**.—Very little is now to be had on spot and prices are now 30s. to 35s. 6d. per cwt., according to quality. **CARAWAY**.—Dutch is a little cheaper on the spot at 41s. 6d. per cwt. New crop for prompt shipment is quoted at 36s. 6d. c.i.f., and October-December shipment at 37s. 6d. c.i.f.

**SENGDA**.—The higher price of 3s. 1½d. per lb. c.i.f. is now quoted to arrive; on the other hand, the spot price is rather easier at about 4s. 4d. per lb.

**SHELLAC** is steady, usual standard TN orange quality closing at 197s. 6d. per cwt. on the spot; fine orange is 215s. to 300s., pure button 232s. 6d., and AC cakey 205s. 6d. To arrive, sales include TN for August-September shipment at 199s., and September-October at 191s. c.i.f. Sales for delivery include October at 201s. to 197s., and December at 202s. 6d. to 197s.

**VALERIAN**.—New crop Belgian valerian is quoted at from 65s. to 68s. per cwt. c.i.f.

**WAX (VEGETABLE)**.—Japanese is steady at 81s. per cwt. on the spot; and for September-November shipment 73s. 6d. c.i.f. is quoted. Caruaba has been in slightly better demand and prices are rather firmer. Fatty grey is 115s. per cwt. spot and 112s. 6d. c.i.f. Chalky grey is 112s. 6d. spot and 110s. c.i.f. Primera is 165s. spot and 148s. c.i.f.

### Essential Oils

There is no real market activity. Star anise is exceptionally scarce on spot and the market is practically bare. Cassia shows little interest. Wormseed is neglected, but the prices are very firm. Spearmint and American peppermint are both firm. Bergamot and other citrus oils are easier, both on the spot and for shipment.

**ANISE (STAR)**.—The market is practically bare and supplies are very difficult to find. No offers for c.i.f. shipment have been made just recently. A little undeclared is quoted at

3s. 6d. per lb. c.i.f., in cases, and could possibly be got. It is reported that the price asked in Hamburg is 4s. per lb. The spot price here is 3s. 9d. per lb.

**BERGAMOT** is easier at 14s. 6d. to 15s. 3d. per lb. c.i.f. for prompt shipment, and for new crop, January shipment, at 14s. 6d. The spot price is about 16s. per lb.

**CAMPHOR**.—Very scarce on spot and prices quoted are nominal only. Arrivals recently have been practically nil.

The total exports of camphor oil from Japan during the first six months of the present year amounted to 12,891 piculs, compared with 13,135 piculs in the corresponding period of 1928 and 12,024 piculs in 1927.

**CANARY**.—Java is unchanged at 10s. 6d. to 11s., in drums, on the spot.

**CASSIA**.—No interest is displayed in cassia, and there is no change in the c.i.f. position. Spot price is about 4s. 9d. per lb.

**CEDARWOOD** is quoted at from 1s. 3d. to 1s. 5d. per lb., according to quantity.

**CEDARLEAF** is quoted at 6s. 3d. per lb. c.i.f.

**GERANIUM**.—Bourbon is very firm at 20s. to 20s. 6d. per lb. on the spot and 19s. 6d. c.i.f. Algerian is quoted at 21s. per lb. on the spot.

**GYNERGRASS**.—Business has been done at 9s. per lb. on the spot.

**LEMON**.—Hand-pressed Sicilian oil is quoted unchanged on the spot. Machine-made oil is lower at 14s. 3d. to 15s. 3d. per lb. on the spot, and the c.i.f. prices are 3d. per lb. less. For new crop 10s. 3d. to 11s. 6d. per lb. c.i.f. is quoted for January shipment. Californian lemon is quoted at 10s. 6d. per lb. on the spot, in drums.

**MANDARIN**.—The price quoted on the spot is 27s. per lb. and 25s. to 25s. per lb. c.i.f. for prompt shipment. New crop, November shipment, is offered at 25s. per lb. c.i.f.

**ORANGE**.—Californian orange is quoted, in tins and cases, at 12s. 6d. per lb. on the spot. Sicilian is quoted at 16s. 3d. per lb. c.i.f. for prompt shipment, and new crop for November shipment at 14s. 6d. per lb. c.i.f.

**PALMAROSA**.—Business has been done at 11s. 9d. per lb. on the spot. Earliest offers for new crop are for October-November shipment, owing to the U.S.A. having bought largely at the source.

**PEPPERMINT**.—Japanese demethylised Kobayashi brand is worth 6s. 4½d. on the spot, Suzuki is 6s. 4½d., and outside brands 6s. 3d. per lb. Arrival prices vary from 5s. 9d. to 6s. 2d. c.i.f. The oil is neglected and arrivals during the past week have been 135 cases. American new crop peppermint is quoted at 16s. in drums and 16s. 6d. per lb. c.i.f. in cases for September shipment, and at 15s. 3d. to 15s. 6d. for shipment in the early part of 1930. Some business has been done at 15s. 6d. per lb. for prompt shipment, and the spot price is from 16s. 3d. to 16s. 6d. per lb. for old crop. H.G.H. is quoted at 22s. 6d. per lb. on the spot.

The total exports of peppermint oil from Japan during the period January to June of the present year amounted to 2,136 piculs, compared with 2,571 piculs during the corresponding period of 1928, and 2,280 piculs in the first six months of 1927. The following quantities were imported into Great Britain during the first six months of 1929, 1928, 1927: 291 piculs, 153 piculs, 439 piculs respectively.

**SASSAPARILLA**.—Spot price is 5s. 6d. per lb., and to come forward at 5s. 4d. per lb. c.i.f. for prompt shipment.

**SPERMINT** is quoted to come forward at 20s. 3d. per lb. and 21s. 3d. on the spot.

**WORMSEED (CHENOPodium)** is very firm and is neglected temporarily. The spot price ranges from 13s. 6d. to 14s., and to come forward 12s. 9d. to 13s. c.i.f. is asked.

The following arrivals have taken place from the countries indicated during the period August 14 to August 20 (inclusive): Almond (Fr.) 10 cs., (Sp.) 4 cs.; caraway (Neth.), 1 cs.; cassia (Ch.), 1 cs.; cinnamon (Cey.), 1 dm., 1 cs.; citronella (Cey.) 3 cs., (Fr.) 3 dm., (Javel) 6 dm.; clove (Fr.) 4 dm.; coriander (Fr.) 2 cs.; fennel (Sp.), 8 cs.; lavender (Sp.), 1 dm.; lemon (It.) 36 cs.; lime (B.W.I.), 2 dm.; nutmeg (Neth.), 5 cs.; orange (B.W.I.) 14 cs., (It.) 1 cs.; patchouli (Str.), 7 cs.; pennyroyal (S.P.) 4 cs.; peppermint (Jap.) 15 cs., (U.S.), 19 cs., 1 dm., (Fr.) 2 cs.; perilla (Ger.), 3 dm.; petitgrain (Fr.), 1 cs.; rosemary (Sp.), 6 dm.; sandalwood (Aust.) 69 cs., (Fr.) 24 cs.; thyme (Sp.) 1 dm., (It.) 1 dm.; wormseed (U.S.), 4 cs.

The following arrivals have taken place from the countries indicated during the period August 21 to August 27 (inclusive): Almond (Fr.) 5 cs., (Sp.) 5 dm., 3 cs.; bergamot (It.), 19 cs.; camphor (U.S.), 1 dm.; cassia (H.-Kong), 15 cs.; cedarwood (U.S.) 2 dm., (Ger.) 1 dm.; cinnamon (Neth.), 1 cs.; citronella (Cey.) 6 dm., (U.S.) 12 dm.; Dutch Indies, 2 dm.; clove (Fr.) 1 dm.; eucalyptus (Sp.) 1 dm., (Aust.), 50 cs.; fennel (Sp.), 1 dm.; geranium (Fr.) 2 dm.; grapefruit (U.S.), 3 cs.; lavender (Fr.) 3 dm., (Sp.) 1 dm.; lemon (Ger.) 5 cs., 6 dm., (It.) 51 cs.; lemongrass (Br. Ind.), 6 dm.; orange (B.W.I.) 10 cs., (It.) 8 cs., (U.S.) 5 cs.;



patchouli (U.S.), 2 cs.; peach (Fr.), 5 cs.; peppermint (Jap.), 185 cs.; petitgrain (Fr.) 2 cs., (Ger.) 4 cs.; pimento (Neth.), 1 cs.; pine (Grain), 11 dm.; rosemary (Sp.), 4 dm.; sandalwood (Br. Ind.), 82 cs.; thyme (Sp.), 1 dm.; underscribed (Fr.), 10 cs.

### Pharmaceutical Chemicals, etc.

THERE is practically nothing of interest to report this week. Conditions throughout the market are sluggish and prices are mostly unchanged.

ACETANILIDE shows no change on a dull market: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb.

AMIDOPYRIN is steady with business quiet: spot, 10s. 7d. to 11s. 1d. per lb. as to quantity; f.o.b., ten cwt., 10s. 6d.; five cwt., 10s. 8d. per lb.

ASPIRIN is steady on a subdued market: quoted from 2s. 9d. to 3s. per lb. as to quantity; some offers may be slightly cheaper.

BARBITONE continues firm on spot on a short market: quoted at about 6s. 6d. to 7s. per lb.; Continental makers are not offering.

BENZALDEHYDE (.03) is steady on a slow market: quantities, 1s. 10d. to 1s. 11d. about 2s. per lb.

BENZOIC ACID is still quiet, with quoted prices unchanged: quantities, ex works, 2s. 1d.; spot parcels, about 2s. 2d.

BROMIDES.—There is nothing of interest to report; business is sluggish, while quoted prices are unchanged. Dealers quote: ammonium, 1s. 10½d. to 1s. 11d.; potassium, B.P., granular, 1s. 6½d. to 1s. 7d.; crystals, 1s. 6½d. to 1s. 7d.; sodium, B.P., 1s. 9½d. to 1s. 10d. per lb., as to quantity. British makers' list prices are also unchanged: ammonium, 1s. 11½d.; potassium, B.P. crystals, 1s. 8½d.; granular, 1s. 7½d.; sodium, B.P., 1s. 10½d. per lb., in cwt. lots.

CALCIUM LACTATE continues quiet: quantities, 1s. 2d.; smaller parcels, up to 1s. 3½d. per lb.

CHLORAL HYDRATE is steady but slow of sale: duty-paid crystals, 3s. 1d. to 3s. 3d. per lb., as to quantity and packing.

CITRIC ACID (B.P. crystals).—There is little to report: spot prices of foreign are unchanged at about 2s. 0½d. to 2s. 1d. per lb., less 5 per cent. for quantities, with supplies adequate.

CREAM OF TARTAR is one of the few bright markets: prices are firm in the region of 100s. to 102s. 6d. per cwt. for foreign 99 to 100 per cent. powder.

CREOSOTE CARBONATE remains very quiet at about 5s. 8d. to 6s. per lb.

GUAIACOL CARBONATE is unchanged at from 4s. 6d. to 5s. per lb.

HEXAMINE is steady but business continues poor: quoted from 2s. 3d. to 2s. 6d. per lb.

HYDROQUINONE is quoted at the controlled prices of 3s. 8d. to 3s. 11d. per lb., as to quantity.

METHYL SALICYLATE (B.P.) continues at makers' prices of 1s. 6d. to 1s. 8d. per lb.; cheaper offers are met with at times.

METHYL SULPHONAL is dull on a steady market: quoted, as to quantity, at from 12s. 7d. to 13s. 10d. per lb.

PARAFORMALDEHYDE is unchanged on a dull market: 100 per cent. powder, 1s. 7d. for quantities in kegs; small parcels, 1s. 8d. per lb.

PARALDEHYDE is very slow of sale: quoted from 1s. 1d. to 1s. 4d. per lb., as to quantity and packing.

PHENACETIN is unchanged on a steady but flat market: quoted from 3s. 2½d. for ten-cwt. lots up to 3s. 7d. per lb. for small parcels; f.o.b. Continent, about 1s. less.

PHENAZONE remains quiet and unchanged: ten cwt., 5s. 9d. up to 6s. 1d. per lb. for small parcels; f.o.b. Continent, about 1s. per lb. less.

PHENOLPHTHALEIN continues at controlled prices, with the market dull: quoted from 5s. 11d. to 6s. 1½d. per lb., as to quantity.

POTASSIUM PERMANGANATE is slow of sale, with prices steady: quantities, in drums, 6d.; smaller parcels about 6½d. per lb.

POTASSIUM SULPHOGUAIACOLATE.—For the usual 14-lb. or 28-lb. lots 5s. 8d. per lb. is quoted and 3s. 6d. for quantity.

SACCHARIN remains unchanged and the demand is still good.

SALICYLIC ACID.—B.P. has been in rather better demand at the unchanged prices of from 1s. 5d. to 1s. 7d. per lb. for both crystals and powder, according to quality.

SODIUM DIETHYLBARBITURATE continues firm on spot at from 7s. 9d. to 8s. per lb.

SODIUM SALICYLATE (B.P.) continues steady at home makers' prices: ten-cwt. lots, 2s. 2d. up to 2s. 4d. per lb. for small parcels.

SULPHONAL is unchanged at controlled prices: ten cwt., 10s. 1d. up to 11s. 2d. per lb. for small lots of crystals; powder, 1½d. per lb. more.

TANNIC ACID.—B.P. *levis* remains slow of sale; quantities, 2s. 10d.; small parcels, 3s. per lb.

TARTARIC ACID (B.P. crystals) is unchanged; business has been fair and spot prices for foreign are steady at about 1s. 4½d. to 1s. 4¾d. per lb. for fair quantities.

THYROL is unchanged on a dull market: synthetic fine white, 8s. 1d. to 8s. 3d. per lb.; ex ajowan seed, 11s. 3d. per lb.

VANILLIN is unchanged: cwt. lots, ex clove oil, 15s., and 14s. 4d. per lb. on contract, for ton lots; ex guaiacol, 14s. 6d. per lb. for cwt. lots.

### Industrial Chemicals, etc.

London, August 28.

THERE is no change to report, business being quiet in most directions the tone being lifeless in many instances. The holiday season, now at its peak, is no doubt the cause of the general lack of interest.

ACETIC ACID continues steady with a moderate business: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE is unchanged; B.G.S., £76 to £85 per ton, in drums, ex store, as to quantity.

AMMONIA (anhydrous) continues in demand for small lots; quoted from 10d. to 1s. per lb. in loaned cylinders, carriage paid; slightly less for big contracts.

AMMONIUM CHLORIDE is quiet; grey galvanising, £21 to £21 7s. 6d. per ton, in casks, ex store; slightly less for contractors.

ARSENIC has been quiet and the nearest quotation for white Cornish 99.9 per cent. is £16 per ton f.o.r. Mexican high-grade is £16 10s. c.i.f. Liverpool.

BARIUM CHLORIDE is well maintained on spot with 98 to 100 per cent. prime white crystals at £11 10s. per ton, in casks, ex store; f.o.b. Continent, £10 5s., for quantities.

CAUSTIC POTASH continues at Convention rates, with business still very quiet; 88 to 92 per cent. solid, £31 15s. to £35 15s. per ton, in drums, ex store; c.i.f., 30s. per ton less in all cases.

COPPER SULFATE.—There has been a little export inquiry, but business is very slow. Associated makers are quoted £27 10s. upward f.o.b. for casks, less 5 per cent., but this is doubtless nominal as parcels are obtainable from the Continent at several pounds under that figure.

FORMALDEHYDE is quiet and quoted prices are keen: 40 per cent. by volume is about £35 per ton, in casks, ex store.

FORMIC ACID remains slow of sale, with 85 per cent. in carboys at about £41 to £42 per ton, ex store.

ISOPROPYL ALCOHOL continues to meet with a fair amount of small business; reliable make, 11s. to 12s. per gallon, in drums, carriage paid.

LEAD PRODUCTS.—Convention prices for home makes and imported red and white lead, dry and ground in oil, are unchanged; lead acetate, brown, £39; white, £40 per ton, in casks, ex store.

LITHIUM is steady, with occasional inquiry: 30 per cent. Continental red seal, £19 10s. per ton, in casks, ex store; slightly less for contractors.

OXALIC ACID is quiet, with quantities offering at about £30 per ton, ex wharf; spot parcels, 32s. 6d. per cwt., ex store.

POTASSIUM CARBONATE is unchanged with little business: 90/92 per cent., £24; 96/98 per cent., £25 10s. per ton, in casks, ex store; slightly less for contractors.

POTASSIUM CHLORATE is a poor market; quantities to arrive, about 2½d. ex wharf; spot parcels, from 3d. to 3½d. ex store.

POTASSIUM PERMANGANATE is neglected; commercial quality, in two-cwt. drums, 5½d. per lb., ex store.

POTASSIUM PRUSSIANE has been quieter, but steady; quantities, £65 10s. to £65 10s. per ton; single casks, 7d.; small parcels, 7½d. per lb., ex store.

SILICA is very quiet; decoloring crystals, £31 10s.; medium, £23; fine white crystals, £17 10s. in casks, ex store; slightly less for contractors.

SODIUM ACETATE is firm with business quiet; spot, £21 10s. per ton, in casks, ex store.

SODIUM CHLORATE remains neglected; quantities to arrive, 2½d. ex wharf; spot parcels, from 3d. per lb., ex store.

SODIUM HYPOSULPHITE is in fair request on limited lines; dealers' quote pea crystals in 1-cwt. kegs, £15; commercial quality, £9 10s. per ton, in casks, ex store; British makers' price for pea crystals to home consumers on contracts, £15 per ton, carriage paid to buyer's station.

SODIUM PRUSSIANE is steady but very quiet; quantities 4½d. to 5d.; smaller parcels, 5½d. per lb., ex store.

ZINC OXIDE is unchanged at makers' prices; B.P., £45; white seal, £42; red seal, £41 per ton, delivered.

**COAL-TAR PRODUCTS, ETC.**—ANILINE OIL and ANILINE SALT are unchanged. CARBOLIC ACID ICE CRYSTALS (39° to 40° C.)—There is no change in the short position, and prices remain at from 6½d. to 7½d. per cwt., according to quantity. In 3-cwt. drums, free. It is hoped that the position of crude carbolic will improve in the next few weeks, and that supplies of ice crystals will, as a result, become less scarce. CRESYLIC ACID.—There are signs that the price of the pale 95 to 97 per cent. quality is firming up. The material has been standing at a very low price for some time, and an increase of a few pence per gallon would not be unexpected. The present figure is about 2s. 1d. to 2s. 4d. per gallon, naked at works. The dark 95 per cent. quality is obtainable at about 1s. 6d. to 1s. 8d. per gallon, naked at works. REFINED CRESYLIC ACID is in short supply, and the price is very firm at from 2s. 8d. to 2s. 11½d. per gallon, naked, f.o.r. makers' works. CREOSOTE oil is steady on a quiet market; ex works, 4½d. to 4½d.; f.o.b., 6½d. per gallon, in bulk quantities. NAPHTHALENE is unchanged; flakes and balls, £15 15s. to £16 per ton, in cases, ex wharf. METHYL ALCOHOL is meeting with a fair demand; market is irregular; quoted at about £45 per ton and less for quantities, in drums, ex store. PYRIDINE remains dull; f.o.b., 4s. to 4s. 6d. per gallon. TOLUOL is unchanged; business limited; commercial 90's, 1s. 9d.; pure, 1s. 1½d. per gallon, at works.

### Fixed Oils, etc.

GENERALLY quiet markets are reported, with little change of importance. Palm oils close level on the week, while linseed oil shows an improvement forward. Turpentine is also steady at slightly improved prices. ACID OILS remain slow of sale and none too steady: coconut and/or palm kernel, 35s. 6d.; ground nut, 31s. 6d.; soya, 28s.; spot. CASTOR is steady as quoted: pharmaceutical, 48s. 6d.; first pressings, 45s.; second pressings, 43s. per cwt. spot in not less than one-ton lots. COCONUT has been very quiet: deodorised, spot, 41s.; Ceylon, 33s. 9d. c.i.f.; Cochín, 45s. c.i.f. COTTON continues steady: deodorised, 42s.; common edible, 40s.; soapmaking, 37s. 5d.; crude, 34s. spot. GROUND NUT remains slow of sale: deodorised, spot, 44s.; crude Oriental, 33s. c.i.f. PALM KERNEL is dull, with prices unchanged: deodorised, 41s. 6d.; crude, 37s. 6d. spot. PALM.—After a slight decline value has recovered and close unchanged on the week; market quiet: Lagos, 35s. 9d.; soya, 28s. 1½d.; mediums, 33s. 6d.; harda, 34s. 6d.; bleached 35s. 9d. spot. RAPE remains quiet: refined, 44s. 6d.; crude, 36s. spot. SOYA is quiet but fairly steady: deodorised, 40s.; crude, 36s. spot. LINSÉED (raw, naked) has been on the quiet side but values for forward positions show an improvement on the week; on spot, 37s. 6d.; September, 35s. 9d.; September-December, 35s. 9d.; January-April, 35s. 3d. Boiled oil, spot, 40s. 9d. TURPENTINE.—The market, after advancing lately on firm American advices, eased again a little, as buyers were not prepared to follow the rise. The spot price closes at 45s. and September-December at 42s. 9d. London deliveries for last week were 1,945 barrels, making a total of 64,102 barrels since the beginning of this year. Stocks were returned at 15,236 barrels, against 30,744 barrels a year previous. Including the quantities landing, the London visible supply made up at 22,445 barrels, comparing with 35,586 barrels for the same period for last year. RESIN—Prices also improved on the week, but active demand, and at the higher rates quoted buyers became more reserved and prices eased off. C.i.f. terms were as follows: B/K 18s., M/N 18s. 1½d. to 18s. 7½d., W/G 18s. 10½d., and W/W 18s. 9d. Terms ex wharf are 6d. per cwt. more, except for W/W, which is priced at 2½s. French is neglected, being too dear compared with American, with W/W quoted at 18s. 10½d. c.i.f. London. WOOD.—Hankow, in barrels, on spot is offered at about 75s. 6d. OLIVE.—French B.P. is 5s. 6d., edible 6s. 6d., and Italian edible 7s. 9d. per gallon, ex wharf. LUBRICATING, MINERAL, BURNING OILS, ETC.—Generally quiet markets continue to be reported, with little or no change of importance. Lubricating oils are in some directions slightly easier on spot: pales, £9 15s. to £22 5s.; reds, £11 5s. to £22; dark cylinders, £14 10s. to £34 12s. 6d.; filtered cylinders, £25 to £41 per ton, as to quantity, less 2½ per cent.

### Calcium Tartrate Production

THE SOCIÉTÉ ALSACIENNE DE PRODUITS CHIMIQUES is building a number of factories in the south-west wine-producing districts in order to recover the calcium tartrate from the vats. These combined factories expect to have an output of 1,000 tons calcium tartrate. Up to a short time ago existing factories recovered a product with a tartaric acid content of 45 to 48 per cent. The Société Industrielle du Languedoc, an affiliated concern of the Société Alsacienne de Produits Chimiques, which at their works at Saint Laurent d'Aiguouze (Gard) produced annually 600 tons of tartaric acid in the

form of calcium tartrate, has increased production to 1,000 tons, with a tartaric acid content of 72 to 76 per cent.

### Bulgarian Rose Oil Exports

THE returns published by the General-Direction of Statistics, Sofia, state that exports of rose oil from Bulgaria during March 1929 amounted to 118 kilos, valued at 9,014,093 leva, and consigned to the following countries: Great Britain, 30 kilos; Germany, 24 kilos; Egypt, 499 grams; France, 61 kilos. Exports during the period January to March 1929 were 174 kilos, valued at 13,233,655 leva.

### Argentine Tartaric Acid

THE U.S. Assistant Commercial Attaché at Buenos Aires has sent a message to Washington intimating that Imperial Chemical Industries, Ltd., intends to construct a modern plant in Buenos Aires for the manufacture of tartaric acid. The wine manufacturers of Mendoza and San Juan use large quantities of tartaric acid annually. The I.C.I. has for some time considered the advisability of erecting a modern tartaric acid plant in Buenos Aires, but it is only recently—and only after the recommendation of a group of their experts who studied conditions in Argentina for about a year—that a decision was reached. The new plant will be controlled by the Sociedad Anonima Rivadavia. It is also understood that the I.C.I. is studying the possibility of erecting other factories in Argentina.

### Italian Copper Sulphate

ACCORDING to the annual report published by the Montecatini, the company produced 50,054 tons of copper sulphate in 1928 compared with 42,837 tons in 1927. Adding to this output the production of the Societa Ollomont, which is controlled by the Montecatini, the total production of the group is brought up to 77,179 tons in 1928 against 71,337 tons in 1927. Deliveries totalled 69,070 tons in 1928 compared with 69,694 in 1927. The Italian market for copper sulphate during 1927-28 was active, but the 1928-29 year has begun under difficult conditions, owing to the rise in price of copper. Consequently, in spite of the fact that last year's production of copper sulphate has been practically sold off, prices for the current year are rising with the increase in the price of raw material.

### Norwegian Cod-Liver Oil

THE revised system of control over the trade in medicinal fish oil in Norway which has been referred to on several occasions in the *C. & D.* is to become effective on January 1, 1930. Under this law it will be prohibited to export oil under the designation "Norwegian cod-liver oil," or under any other designation in the Norwegian or a foreign language which declares the article to be of Norwegian origin and produced from the cod, unless such oil is produced in Norway from cod liver oil of the *gadus morhua*. Other medicinal oil from fish of the *gadus* species will not be allowed to be exported under a designation which declares it to be of Norwegian origin unless the oil is produced in Norway. The regulations for the execution of these provisions are to be laid down by the Crown, which is also given the power to institute a quality control of medicinal fish oils (steamed medicinal oil, crude medicinal oil and clear oil), and to require the production of a control certificate before export is allowed.

### Sudan Acacia

BOXALL & Co., in a report covering the month of July, state that arrivals in Kordofan stations (El Obeid and Nahud)—no other stations bringing in gum for some time) amounted during July to 172 tons, about half of which was rain-damaged, against 495 tons last year—a shortage of 323 tons, or 65 per cent. Arrivals during the month have gradually fallen off, and during the last week of July amounted to only 17 tons compared with 54 tons for the first week. The shortage in Kordofan and Tendefi with the shortage against last season is about 4,900 tons; with the shortage of inferior Hashab gum against last season would amount to date to about 6,900 tons. El Obeid prices for gum free from rain damage closed at the end of the month at about 10s. per cwt. more than the closing price of June 30. But if it is borne in mind that the daily average is no more than 5½ tons for the whole month, and still less for the latter half of the month, taken separately, and moreover that only half that quantity is gum free from rain damage, it will be realised that even in the El Obeid price is very little more than nominal. Notwithstanding the small demand there, local dealers who have any gum in hand (the total of any such gum cannot amount to much) are able to obtain for it much higher prices than those paid at El Obeid for the few kantars still coming in. Demand has been very small. Talha prices have gone up 1s. per cwt.





Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### The Assay of Hyoscyamus Leaves and Extract of Hyoscyamus, B.P.

SIR,—In reply to Messrs. Markwell and Walker's criticism in your issue of August 24, the instructions given in the B.P. '14, under the heading of "Extractum Hyoscyami," to "determine the proportion of alkaloids present in the leaves by the process described under *Belladonna Folia*" are specific instructions for the determination of the proportion of alkaloids present in the leaves to be used in the preparation of the extract, and cannot be interpreted into an official method for the assay of hyoscyamus leaves. The introduction of dry extracts into the B.P. '14 was the result of the classical work of Farr and Wright, who were of the opinion that alcohol (70 per cent.) was the best solvent for the alkaloids, and who recommended its use. An experience of very many years in the assay of hyoscyamus leaves and preparations enables me to confirm this completely.—Yours faithfully,

CHARLES M. CAINES.

London, N.W.2.

### A Coupon Camera Suggestion

SIR,—I am pleased at the interest stimulated through your columns regarding the free camera coupon schemes. I quite agree there are two sides to the question, as in all cases, but I think all will admit the "cons" well outweigh the "pros," and it cannot be denied a very large public are obtaining these cameras at the expense of the retail trade. May I be so bold as to suggest to the powers that be that there is no reason why the cameras should not be supplied through the retailer just in the same manner as the free films are. I do not see any difficulty in the public being presented with a coupon which will entitle them to obtain their camera through any retailer they choose. This would answer the double purpose of the supplies going through the legitimate channels and would also induce dealers to interest themselves and help to advertise such schemes. Everyone would then get a square deal with no loss to anyone and a decided advantage to the manufacturer running these methods of advertising.—Yours truly,

H. DUTTON.

Higher Openshaw, Manchester.

### Small Orders

SIR,—Having with much disgust read the letter by "H. C. M." (5/8) concerning penny trade, I thought it was about time to come into the fray. Do "chemists" (pardon the misuse of the title) realise that even in a working-class district the people have not enough cheek to go to a sweet shop and ask for a pennyworth of anything? In any case, a "professional" man who lowers himself to the level of a hawker selling penny articles in the gutter (without having to pay rent, rates, light, etc.) deserves to land in the same place himself. Is it not high time that the Brotherhood of Pharmacists pulled themselves together and made a compact not to allow themselves to be the laughing-stock of other trades? As for selling such goods as rusks from an opened tin, that surpasses all understanding—they will soon be selling proprietary foods at a penny a spoonful. The same remark is also intended for those who feel that they are robbing the public by accepting a fair and reasonable price for films and D. and P. The large, cheap, store bogy is much overdone, and trying to come down to their prices and quality is simply a sign that the chemist has no faith in his own goods or his own power of salesmanship. It is a bad sign when a M.P.S., etc., admits by his actions that he is no more capable than a little girl working at a low wage handing over the counter just the article she is asked for. The chemist's shop-bogy could do that for him. It will certainly be a pity to see the pharmacist come down to giving a packet of pins in place

of the farthing change, as our "friends" the drapers do. We all understand that a chemist has to work with grains and scruples, but is it so necessary for him to think in them as well? I hope, Sir, that you will pardon the strain of this letter, but considering that the general public cannot even read or understand the labels on our shop bottles, surely we can lay claim to something better than advertising the fact that we not only deal in pennyworths and broken packets of goods, but also agree with such paltry methods of adding to our already huge (?) fortunes. Shall we soon be selling half a seidlitz powder because it is for a child?—Yours, etc.,

NIL DESPERANDUM (28/8).

### Henry VIII as an Apothecary

SIR,—I have not had the opportunity of examining Mr. Thompson's work on "The Mystery and Art of the Apothecary" (*C. & D.*, July 27, p. 118), but having personally consulted the Sloane MSS. at the British Museum some years ago I can only say that quite a number of the remedies—mostly plasters and ointments—are stated to be devised by the King's Highness, Majesty, or Grace (for the three expressions are all used); in fact, No. 61 is "a water made and devised by the King's Majesty." I have always understood that Henry VIII, in his bloated old age, was a martyr to the "ytche" (as he calls it) and similar afflictions, and therefore am quite prepared to admit that the Royal sufferer might take a keen and personal interest in the preparation of remedies likely to ease his sufferings. I may perhaps be permitted to add that according to Wootton's "Chronicles of Pharmacy" (I, '296) his daughter Elizabeth seems to have taken a similar (if less personal and particular) interest in the healing art, and to have sent prescriptions to selected apothecaries for some foreign magnates. Henry VIII, we are apt to forget, was in his youth "a fair scholar" and a sympathiser with the "New Learning" of his day; and I think we may fairly claim that he dabbled in pharmacy, as Charles II dabbled in chemistry, according to the lights of his age. Shakespeare, who should have had the advantage of oral tradition, shows Henry as the personal friend of Dr. Butts.—Yours faithfully,

AN INQUIRER (21/8).

## Dispensing Notes and Difficulties

### Picric Acid in Paraffin

SIR,—I should be grateful for your advice on the following:—

Picric Acid ... 1% suspension in liquid paraffin  
Mitte 3vj.

Knowing the explosive nature of picric acid, I carefully rubbed down 26½ gr. (dry) with 3ss. distilled water and added liquid paraffin to 3vj. Is this procedure correct?

Yours faithfully,

F. F. H. (29/7).

[No water should be used to prepare this. The correct way to dispense it is to take 26½ gr. of dry picric acid, put it in a glazed mortar with about two dr. of liquid paraffin, and rub it down to a fine homogeneous condition; add the remainder of the liquid paraffin, mix and bottle. Put the six fluid ounces into an eight-ounce bottle and label it "To be well shaken." It will stand up well for some time before depositing. The physician requires a weight in volume product, hence one gram made up to 100 mils is correct, no notice being taken of the s.g. of the liquid paraffin. It is important to use a glazed mortar and pestle, and rub down with the liquid paraffin. If the picric acid has been bought damped it should be spread on a plate or tile and dried. The preparation is used as an antiseptic dressing for wounds.]

### A Phenolphthalein-Paraffin Emulsion

SIR,—Can the following prescription be dispensed as written? If not, how should it be dispensed?

Phenolphthalein, ... .. g. ij.  
Mucilag. tragacanth. ... .. q.s.  
Paraffin, liquid, ... .. ad 3ss

Yours faithfully,

H. F. I. (4/7).



[Here no percentage of liquid paraffin is mentioned. It might be the prescriber's intention to add just sufficient of the mucilage of tragacanth to suspend the phenolphthalein, which is practically insoluble in liquid paraffin. The mucilage of tragacanth cannot be added to the oil as if it were a bismuth mixture. It is quite immiscible, and therefore cannot be dispensed as written. Experience proves that it is impossible to make an emulsion with mucilage of tragacanth and liquid paraffin, using the ordinary apparatus of the shop, such as pestle and mortar. The best method to follow is the well practised 4-2-1 method. This emulsion will "stand up" for a long time, and bear dilution like milk.]

Liquid paraffin	...	...	4 oz.
Gum acacia	...	...	1 oz.
Gum tragacanth	...	...	12 gr.
Phenolphthalein	...	...	32 gr.
Water	...	...	to 8 oz.

Make this into a primary emulsion by mixing the first four thoroughly well, and then adding 2 oz. of water. When this has been pestled to a cream, add water to make up to 8 oz. This will give a 50 per cent. oil emulsion of excellent appearance. An alternative method to the above is an agar-agar emulsion, which allows more than 50 per cent. of liquid paraffin, if desired. A 50-per-cent. emulsion is made as follows:—

Agar-agar	...	...	gr. 50
Liquid paraffin	...	...	3viij.
Distilled water	...	...	3viij.

Add the agar-agar to the water, and make a gel by means of heat. Make up any evaporation by boiling water. Heat the liquid paraffin to 60° C., then add to the mixture gradually, and beat until cold. A wire beater gives the best result.]

### Preparing a Cream

Sir,—I should be obliged if you would inform me as to the best or proper means of dispensing the following:—

Cetacci	...	...	3iiss.
Cere albe	...	...	[?]
Adip. albe	...	...	[?]
Aq. distill.	...	...	3ij.
Ol. olive	...	...	3xxvij.

Yours truly,  
M. C. J. (29/6).

[The prescriber in this case may want a cream similar to one suggested in "The Lancet" about two years ago. This was composed of white beeswax gr. 108, liquid paraffin dr. 36, water to 6 oz. This cream is largely used in hospitals, with such additions as acriflavine or iodine, for surgical dressings. But as the quantities of white wax and lanolin are not given, it is quite possible that a more solid result is called for, such as cold cream. The three drachms of water needs some explanation. If sufficient lanolin is used to make hydrous wool fat, namely, 7 drachms, and 3½ drachms of white wax is melted with the spermaceti, a soft cold cream will result. It is probable that the happy medium would meet the wishes of the prescriber, and by adopting the following procedure a cream can be made which will not pour from a jar, and will not be as stiff as an ointment.]

Spermaceti	...	...	3½ dr.
White wax	...	...	2 dr.
Anhydrous wool fat	...	...	1 dr.

Melt together. Warm the olive oil (27 drachms) to a temperature of 60° C., and pour it into the wax mixture. Stir well, add at 60° C. distilled water, 3 drachms, and stir until cold. Creams are described in the new edition of "Pharmaceutical Formulas" as "A somewhat indefinite class of preparations, mostly soft cream-like applications..." Various consistencies are required according to the purpose for which the creams are required. Never use more heat than is necessary.]

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

### Partiality for Potassium Hydroxide

I was struck when reading recent papers in the proceedings of a scientific society by the remark of a member, who inquired, "Why always potassium hydroxide? Why not sodium hydroxide, which is, of course, in most cases equally useful and less costly?"—H. M. E. (9/7).

### "Pharmaceutical Formulas."

Mr. J. J. G. Hay, 223 Lower Road, Rotherhithe, London, S.E., writes pointing out that in the formula for tinctura chloroformi et morphine, B.P. 1885, on p. 48 of "Pharmaceutical Formulas," Vol. 1, the quantity of ether should be sij. and not as printed. The proportion in  $\pi x$  (given in the parallel column) is correct. We are much obliged to our correspondent, who is the first subscriber to notice a slip in the proof-reading.

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. E. (7/8).—CLEANING STONE STEPS.—Under the circumstances you mention we should suggest scrubbing the steps with water and soft soap, with the addition of some gritty substance, such as powdered pumice stone.

G. J. (17/8).—MOSS ON BOWLING GREEN.—The trouble is probably due to lack of drainage. Soot (not too fresh) is an excellent moss destroyer, but the latest method of treating greens is by frequent doses of ammonium sulphate  $\frac{1}{2}$  oz., with twice its volume of sand, at fortnightly intervals, well watered in. By this means the soil is kept slightly acid. An article on the subject was published in the C. & D., 1927, II, 452.

D. M. D. (22/8).—AQ. MENTHOL.—The following recipes are given under this title in the new edition of "Pharmaceutical Formulas":—

Menthol	...	...	B.F.	B.P.C.
Alcohol (90 per cent.)	...	...	gr. viij.	gr. x.
Distilled water	...	...	3ij.	mxv.
	...	...	3xx.	to 3xx.

H. Y. (6/8).—PUNCTURE CEMENT.—Formulas for preparations of this nature are legion. In general, the products are viscous liquids containing mineral or organic pulp, and may be divided roughly into: (1) Glucose and pyroxylin mixtures; (2) glycerin mixtures; (3) gum and wax mixtures. The following is a formula for a puncture cement which has been widely used:—One volume of sodium silicate is mixed with three volumes of glycerin and neutralised by the addition of acid, with constant stirring. The jelly formed is mixed with three additional parts by volume of glycerin and the composition injected into the tyre.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," August 15, 1879

### A Glance at French Pharmaceutical History

On November 7, 1487, before the separation of the apothecaries from the grocers, a decree confirmed the right of the latter to make and sell all the smaller preparations of one or two simples with honey or oil, and the power of distilling and distributing all sorts of waters. In 1629 the sale of medicaments by grocers was restrained by decree of Parliament. In 1737 they were interdicted from selling waters, oils and syrups, and the vegetable, Glauber's and emetic salts, and from having in their shops any display of apothecaries' wares. An ordinance of 1764, while confirming the previous decrees, gave the grocers the liberty, not of making, but of buying and selling as articles of commerce, the four great compositions—theriaca, mithridate, confection of alkermes, and confection of hyacinth.



[Commenced C. & D., July 5, 1924]

**Roup.**—Various affections of the respiratory organs of poultry go by this name. The most prominent symptoms are those of an aggravated catarrh, shown by sneezing and gasping, with a discharge from the eyes and nostrils, sometimes so bad as entirely to close these. If neglected the disease speedily ends in death. It is very contagious, and therefore the sufferer should be promptly isolated and disinfectants used. The bird must be kept warm and dry, and a dose of castor oil given; the nose and eyes should be well sponged, and syringed with a solution of liq. sodii chlor. 1:2, and if the nostrils are plugged with the discharge, this solution ought to be injected into these, the mouth and throat also receiving the same treatment. Inhalations are found successful in many cases, but unless birds are particularly valuable for stock purposes, it is almost certain to be cheaper to destroy every affected one. Fowls which roost in houses are very subject to catarrh; those roosting in trees, rarely. It is not cold and exposure, but bad air and draughts which induce catarrh. Roup is not a bad cold or sequel to it, in the sense that a nasal gleet is an after-effect of a cold in a horse, but the conditions in which fowls are kept—filthy for the most part—are such as to favour the distribution of pathogenic organisms, which may have lain dormant until a catarrhal condition of membranes offers an inviting seed-bed. Hence we often find birds with neglected colds take roup later on.

**Royal Arms, Use.**—See Arms, Royal, Use.

**Royal Botanical Garden and Arboretum, Edinburgh.**—Founded in 1670, and since transferred more than once to a new site. It includes, besides the usual popular features, a museum of economic botany, a lecture-room and other facilities for scientific work. The Garden extends to sixty acres.

**Royal Botanic Gardens, Kew.**—The first step towards the establishment of Kew Gardens as the headquarters of British botany was taken in 1759, when Princess Augusta, widow of Frederick, Prince of Wales, then in residence at Kew House, appointed William Aiton, a former pupil of Philip Miller, to establish a physic garden after the style of the one at Chelsea, of which Miller was for many years the curator. Accordingly, about nine acres of the grounds was laid out and special plants were obtained from Chelsea by exchange. On the death of the Princess in 1772, King George III appointed Sir Joseph Banks as unofficial director of both the botanic gardens. The scientific prestige of Sir Joseph Banks resulted in considerable additions being made at Kew. On his death in 1820 activity slackened for a few years until John Lindley, in 1838, aroused public interest by unfavourable comment on the condition of the Gardens. In 1840 the charge of the greater part of the land was transferred to the Commissioners of Woods and Forests; and in the following year the appointment of Sir William Hooker, then Professor of Botany at Glasgow University, as director put matters on a more permanent basis. The work of Sir William Hooker and his son, Sir Joseph Hooker, whose joint supervision extended over about half a century, is well known. Among its salient features may be mentioned the compilation of the Index Kewensis (q.v.). The present director of the Gardens is Dr. A. W. Hill. The hours of opening are from 10 a.m. to sunset, and the Houses and Museums are open from 1 p.m. to about 5 p.m. A small charge for admission is made on Tuesdays and Fridays. The scientific work continually in progress is recorded in a series of publications issued by the Stationery Office. (See Kew Gardens: Publications.)

**Royal Botanic Society's Gardens.**—The Royal Botanic Society acquired land in Regent's Park, London, in 1839, and formed a botanic garden partly on popular and partly on scientific lines. For some years the late Professor Bentley, of the Pharmaceutical Society's School, conducted botanical demonstrations in the Gardens. The Economic House, erected in 1873, and rebuilt in 1904, contains a collection of plants used in medicine. Students are admitted by special orders obtainable on the recommendation of a Fellow of the Royal Botanic Society. The public are admitted on Thursdays and Saturdays.

**Royal College of Physicians.**—Title of a chartered body with powers and duties in respect of its members laid down in its charter. The Royal College of Physicians of London was incorporated in 1518; that of Edinburgh received its charter in 1681. The College conducts an examination in medicine jointly with the Royal College of Surgeons; particulars are given annually in the Educational Number of THE CHEMIST AND DRUGGIST.

**Royal College of Science.**—An institution forming part of the Imperial College of Science and Technology, South Kensington (q.v.).

**Royal College of Surgeons.**—Title of a chartered body with powers and duties in respect of its members. The Royal College of Surgeons of London was incorporated in 1800; the Royal College of Surgeons of Edinburgh received its charter in 1505. (See also Royal College of Physicians.)

**Royal Institution.**—Founded in 1799 by Sir Joseph Banks, Count Rumford and other well-known men of science, and incorporated in 1800. The building in Albemarle Street, London, W.1, in which it has met continuously to the present day was formed by the conversion of several private houses. Among the objects of its founders was the diffusion of "the knowledge of useful mechanical improvements." Professorships in natural philosophy, chemistry and physiology have been instituted; and the current courses of lectures, delivered on Wednesdays and Saturdays, include literary as well as scientific subjects. The Royal Institution has a permanent place in the history of science in this country on account of the lectures of Sir Humphry Davy, Michael Faraday, Sir James Dewar, and other eminent men. The publication of its Journal was commenced in 1802; Secretary, Sir Robert Robertson, F.R.S.

**Royal Institute of Public Health.**—President, Sir William Smith, M.D.; secretaries, Dr. E. W. Hope and Dr. T. N. Kelynnack, 37 Russell Square, London W.C.1.

**Royal Microscopical Society.**—President, Mr. J. E. Barnard; secretaries, Dr. R. R. Gates and Dr. C. Tierney, 20 Hanover Square, London, W.1.

**Royal Photographic Society.**—This society was founded in the year 1853 under the title of "The Photographic Society of London," which name was changed in 1874 to "The Photographic Society of Great Britain." In 1894 it was incorporated, its name being then further modified to "The Royal Photographic Society of Great Britain." The object for which the society exists is the promotion of the general advance of photography and its applications. In furtherance of this object weekly meetings are held on Tuesdays and Fridays for nine months in the year, and at these meetings papers and lectures on every phase of photography are given. These papers are published in the society's official organ, "The Photographic Journal" (monthly). The society also publishes (quarterly) "Photographic Abstracts," which, as the title implies, consists of abstracts of the world's photographic literature. There is also an annual exhibition of international character and a number of house exhibitions. Members enrol in whichever group they are interested: Scientific and Technical; Pictorial; Kinematograph; Colour. There are five classes of members: Ordinary, associate, fellow, honorary members and honorary fellows, and anyone who is interested in the art or science of photography is eligible for ordinary membership. Associateship (A.R.P.S.) is only open to members and Fellowship (F.R.P.S.) only to associates, which status is conferred in recognition of ability. Members pay upon election (unless they are members of an affiliated society) an entrance fee of £1 ls., and the



# The C.&D. Commercial Compendium

subscription is £2 2s. annually or a life composition fee of £21. Members elected during the second half of any year are required to pay only £2 2s., which is held to include the entrance fee and the current year's subscription. At the Society's House (35 Russell Square, London, W.C.1), which is open daily from 10 a.m. to 10 p.m., there is an excellent library, dark rooms and other accommodation for the use of members. The secretary is Mr. H. H. Blacklock.

**Royal Sanitary Institute.**—Chairman of Council, Dr. A. Bostock Hill; secretary, Dr. J. W. D. G. Robinson, 90 Buckingham Palace Road, London, S.W.1.

**Royal Society (London).**—The foundation of the Royal Society in London may be regarded as dating from a memorandum drawn up for that purpose on November 23, 1660, and approved by Charles II. For several years previously, however (at least as far back as 1645), there had been frequent meetings of men interested in natural philosophy and other studies. In or about 1648 the Philosophical Society of Oxford was founded; and, subsequently joined by Robert Boyle, it kept closely in touch with the group of science lovers in London. The outcome was the choice of the Metropolis as the headquarters of the movement. The present title was adopted in 1661; in the following year the Society received its first charter, and in March 1665 it commenced the publication of the *Transactions*, which are still issued periodically. The separate issue of *Proceedings* commenced about 1850. The Society occupies a high position in the world of science, and has been frequently consulted by governments on matters of national importance—e.g., the adoption of standards of weight and measure. It awards medals annually for scientific investigations deemed to be of outstanding merit. Address: Burlington House, London, W.1. Secretaries, Mr. J. H. Jeans and Dr. H. H. Dale.

**Royal Society of Edinburgh.**—Incorporated in 1783, when it had been in existence several years as an offshoot of the Philosophical Society of Edinburgh. The Society issues *Transactions* and *Proceedings*. Address: 22 & 24 George Street, Edinburgh.

**Royal Warrant Holders' Association.**—Secretary, Mr. H. Brookhouse, 3 Hanover Square, London, W.1.

**Rubber, Artificial.**—Much has been heard of so-called "synthetic rubber." The word synthetic is, however, a misnomer, as all products which have so far been manufactured are merely imitations of natural rubber, which is not a chemical individual, and whose constitution is not sufficiently determined for it to be possible to "synthesize" it or its constituents. Numerous attempts have been made of recent years to produce a substance artificially, which should have the general characters of rubber, but there is no substance yet produced which can compete commercially with the natural substance. Reference to the files at the Patent Office will reveal the patenting of a huge number of processes, none of which can produce a true "synthetic" rubber. The condensation of unsaturated hydrocarbons is the basis of scientific work on "synthetic" rubber production, but it must be remembered that the difficulties to be got over are enormous. In the case of synthetic indigo, the aim of the research chemist was to produce a single body of known constitution, namely, indigotin. But in the case of rubber, we do not even know the characters of the various constituents, and most of the work done has been, not to *synthesize* rubber, but to produce an imitation of rubber, just as an "imitation" of silk has been produced, which is sometimes described as "artificial silk," and sometimes as "synthetic silk," whereas it is, in reality, merely "imitation" silk. It is obvious that no synthetic rubber can be produced until the constitution of natural rubber is completely understood. So many rumours as to the production of artificial rubber have been set going that the following statement may be of interest. The Department of Overseas Trade forwarded to the Rubber Growers' Association the following note, translated from the "Berliner Tageblatt," of November 27, 1927. "The Algemein Handelsblatt has published the following reply received from the I.G. Farbenindustrie to their question concerning the artificial rubber process of

the I.G.—"In reply to your letter, we have to inform you that the Press announcements are premature. The work on the production of artificial rubber is still in the preliminary stage, and for the time being it is impossible to say whether it will lead at all to a marketable product." The question of synthetic rubber must, therefore, be regarded at the present as a totally unsolved problem.

**Rubber.**—Rubber, or indiarubber, is the name originally assigned to a material of West Indian origin, used for removing pencil marks from paper. The commercial employment of rubber is now on such an extensive scale that it is unnecessary to discuss it here. It is the product of the coagulation of the milky juices (emulsions) of a number of trees, shrubs, etc., and is obviously not a chemical individual. This milky juice is known as latex. A native word for rubber "calucha" is responsible for the word caoutchouc as a synonym for rubber. It consists in the main of hydrocarbon bodies of complex molecular structure and high molecular weight. The principal rubber producing tree is *Hevea Brasiliensis*, which is, as its name implies, a native of Brazil. The kind known as fine hard Para, hard and soft cores, are amongst the best types in the market. Whilst in 1909 only about 6 per cent. of the world's supply was from plantation rubber, the remainder being from wild trees, to-day the production of plantation rubber, especially in the East, is enormous. It was at one time thought that the plant could only grow on moist ground near the sea level. This, however, has been found to be erroneous, and good rubber has been collected at elevations of 2,000 feet or more. The system of tapping the trees most favoured is the herring bone or half herring bone system; the name speaking for itself as to the character of the incisions made. The method of coagulation will vary somewhat according to the after treatment to be used. For example, the strained latex is poured into shallow pans of enamelled iron and a little dilute acetic acid is added with stirring. After a few hours the whole will set like a junket, but tougher and harder. The next day the cakes are taken out and most of the liquor squeezed out by suitable machinery. Drying rubber is a tedious process, and some rubber is exposed to the smoke of a wood fire and sold as "plantation smoked sheet." There are, of course, other trees than *Hevea* which yield rubber; for example, *Castilloa Elastica*, a native of Central and South America. It may be taken that rubber latex contains about 35 per cent. of rubber, 50 per cent. of water, and 15 per cent. of other substances, including albuminoids, and that the bulk of the rubber itself has a composition approximating to the formula  $(C_{10}H_{16})_n$ . Indiarubber is sensitive to changes in temperature. It is converted into a far more stable (physically) product by vulcanisation, which, briefly, consists of treating indiarubber with sulphur at a temperature of over 120°. As used in commerce, indiarubber is generally "filed" with a mineral substance, such as chalk, barium sulphate, zinc oxide, etc. For example, the coating used on macintoshes will often contain up to 60 per cent. of barium sulphate. Indiarubber in its highest state of purity is a practically colourless substance of specific gravity about 0.911 to 0.930. It is insoluble in water, but by prolonged immersion may absorb as much as 25 per cent. With alcohol it behaves in a similar manner, absorbing about 20 per cent. The so-called solubility of rubber in various solvents forms an important feature in the analysis of rubber and rubber goods. From a scientific point of view it is doubtful if rubber is soluble in organic solvents at all—probably the rubber dissolves the "solvent" in a manner somewhat similar to castor oil and petroleum. In the practical examination of rubber materials, great stress is laid on the physical examination, and the tensile strength and elasticity are of the highest importance. The determination of the amount of mineral filler, and its nature, are, of course, necessary, but it must be remembered that "foreign" matter is added for hardening purposes and not merely as a diluent, as a diluent.





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Dear Sirs,—Permit me to take this opportunity of telling you how satisfied I am with 'ASPRO' sales. I recommend it extensively to all my customers, as indeed do all my four assistants and we have yet to find a dissatisfied customer, or a case in which the desired relief from pain has not been obtained.

Our close proximity to Hyde Park has brought us experience that has taught us that 'ASPRO' is very well recommended for headaches caused by sun-glare, and for the normal day-trippers headache. In fact we confidently recommend 'ASPRO' in all those cases where the use of aspirin is indicated, and particularly in those cases where ordinary aspirin is not well tolerated.

Faithfully yours,

THE MARBLE ARCH PHARMACY.

## 'Aspro' Bonus System for Chemists gives Extra 17% Profit

Send for special window display and buy 'ASPRO' on exclusive bonus terms for chemists. Order through your Wholesaler. The bonus works out as follows:—

### BONUS ON 25's.

One Gross Order - Bonus 2 dozen packets.  
Half Gross Order - Bonus 1 dozen packets.  
Quarter Gross Order - Bonus  $\frac{1}{2}$  dozen packets.  
Quarter gross is minimum quantity.

# Cremo-Carbonates

(Tri-Carb-Cream-Mulford)

*Effective  
Non-Caustic  
Palatable*



H. K. MULFORD  
AND CO., LTD.,  
Regent Arcade House,  
252 Regent Street,  
London, W.1.

CREMO-CARBONATES presents certain unique features which warrant its preference whenever an antacid and corrective is indicated. For the first time the well-known protectives and antacids, bismuth, magnesia and lime, are supplied as a suspension of particles of colloidal dimensions.

Its colloidal nature gives it maximum covering power superior to that of a mere mechanical mixture of bismuth, magnesium and calcium.

CREMO - CARBONATES is a soothing antacid, corrective and digestant, particularly useful in the treatment of hyperacidity accompanied by flatulence and of any other conditions where there is excessive secretion of the gastric juices.

RH

# Cephos

THE PHYSICIANS  
REMEDY

**ENJOYS AN  
INCREASING  
SALE**

Write for window display  
and other publicity matter to

**CEPHOS LTD.**  
BLACKBURN

**LIBERAL  
TRADE  
TERMS**

**POWERFUL  
ADVERTISING**

**POWDERS  
AND  
TABLETS**

**RETAIL AT  
1/3 and 3/-**

*Speton—  
the Prophylactic Tablet*

A scientific preparation—originally known as Spermathanaton—entirely free of quinine and cacao butter and endorsed by the Medical Profession.

Sole concessionaires for United Kingdom & Colonies:— COATES & COOPER,  
41 Great Tower Street, London, E.C.3.



Trade Mark  
Registered  
No. 462, 940

## SPETON Antiseptic

Manufactured by The Temmler Chemical Works, Berlin

**WESSANEN'S  
PURE COCOA POWDER  
PRIME COCOA BUTTER**

*Sales Office:*

**12 Broom Lane, Broughton Park, MANCHESTER**

*New Edition—Greatly Enlarged.*

### INCOMPATIBILITY IN PRESCRIPTIONS

with a Dictionary of Incompatibilities.

By THOMAS STEPHENSON, D.Sc., F.R.S.E.

Cloth, Gilt, 4s. 6d., by post 4s. 8d.

Through any Medical Bookseller, or direct from:—  
"THE PRESCRIBER" Offices, 6 South Charlotte St., EDINBURGH

## FREEMAN'S Chlorodyne

The ORIGINAL and BEST. Extensively used throughout the world since 1844.

**Best for the Public—Best for YOU—all-ways.  
DOES NOT REQUIRE CUSTOMER'S SIGNATURE.**

Cable Address: "Chlorodyne, London."



## 'Vitality Pips'

A wonderfully efficient Tonic. Especially prescribed.

P.A.T.A. Retail Prices 1/3 and 3/-

**YOUR PROFIT 33% ON COST.**

A Packet on the counter is a real money magnet.

# BEST SELLERS bring best returns

Just look round your shop—see the number of articles that stay there week after week taking up valuable space—space for which you pay rent—space that could be better filled with fast selling lines.

Lines that sell well are lines that pay. That is why Beecham-Veno goods are capital lines to stock. They sell well and they sell quickly, and what is more every sale adds to your reputation as well as to your profits.

Beecham-Veno Proprietaries are protected under P.A.T.A. regulations. They entail no loss to you, as any stock which may become damaged is promptly replaced free of charge.

There is a never-ceasing, ever-increasing demand for them, the result of powerful and consistent advertising. Beecham-Veno Proprietaries are worthy of display in your shop, they will repay you for any selling co-operation extended to them.

Send in your order now and enjoy the benefits and profits of fast moving lines.

All communications to be addressed to  
**BEECHAMS PILLS, LTD.,**  
CHESTER RD.,  
**MANCHESTER.**

## BEECHAM'S PILLS

universally admitted "Worth a guinea a box" for Constipation, Biliousness, Sick Headache, Indigestion, Stomach and Liver troubles.  
**STOCK THEM.**

## BEECHAM'S POWDERS

The finest specific in existence for Headaches, Neuralgia, Rheumatism, Colds or Flu.  
**STOCK THEM.**

## DR. CASSELL'S TABLETS

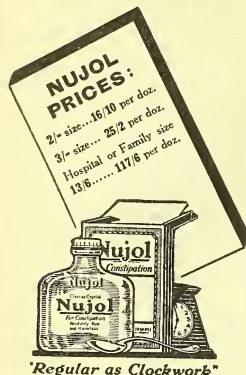
Modern life upsets Nerves, and Digestion of thousands of people. The remedy to restore their nerves and digestion is Cassell's Tablets, a most reliable TONIC.  
**STOCK THEM.**

## GERMOLENE

THE ASEPTIC SKIN DRESSING. The ointment for all wounds requiring dressing of skin. Even in serious skin troubles Germolene provides all that is required to permit of a complete recovery.  
**STOCK IT.**



# It pays to sell Nujol



**'Regular as Clockwork'**

Telephone :  
Hampstead 8060.

Nujol is packed, ready for sale, in attractive cartons, which make a compelling display. National advertising ensures insistent demand yielding generous profits and introducing valuable business.

Every chemist who stocks, displays and recommends Nujol finds a ready market, good steady returns, and an appreciable addition to goodwill.

Cut your overhead down, sell Nujol and see how it pays.

*Send immediately for particulars of special bonus offers for window display.*

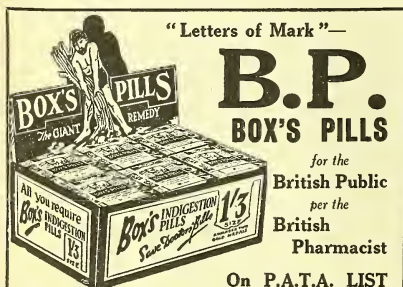
## Nujol

REGISTERED TRADE MARK

### NUJOL Department

128 ALBERT STREET, CAMDEN TOWN, LONDON, N.W.1

Telegrams :  
"Nufinjol-Norwest-  
London."



"Letters of Mark"—

## B.P. BOX'S PILLS

for the  
British Public  
per the  
British  
Pharmacist

On P.A.T.A. LIST

In 1/3, 3/-, 5/-, 12/- and 22/- boxes

Box's Pills have a special public of their own—many of whom have had to go considerable distances to obtain their favourite medicine, or to order from Plymouth, for lack of a local source of supply. Pharmacists are now co-operating in distribution of Box's Pills in increasing numbers, and healthy local demand is developing. Stock them and show them and you will sell them. Display outers and other attractive show material free on application.

Obtainable from Wholesalers, or direct from the proprietor

## W. H. BOX

GIANT PILL  
MANUFACTORY 161 King St., PLYMOUTH

Telegraphic Address: "GIANT," PLYMOUTH.



Nonn sales are increasing everywhere and Chemists are co-operating with our advertising. Are you? If not, display Nonn in one of these attractive containers. It is worth the small space it occupies for Nonn is a big success and sells readily. So keep Nonn to the fore!

## Nonn FOR NERVES

RESTORES SELF-CONFIDENCE

Prices and Particulars:

NONN IS SUPPLIED IN RED CARTONS FOR MEN AND IN BLUE CARTONS FOR WOMEN

P.A.T.A. 1/3 per carton, Wholesale 11/3 per dozen  
P.A.T.A. 3/- per carton, Wholesale 27/- per dozen

Sole Distributors: Proprietors of Nonn Ltd,  
45 Gordon Square, London, W.C.

# NEW PRICES AND NEW PROFITS



The action of the Customs Authorities in classing high grade Mistella as a liqueur, has driven us to raise Wincarnis prices to 5/6 and 3/3 for large and medium bottles respectively.

This price increase could have been avoided only by lowering Wincarnis quality. As such a step must have resulted in harm to our own and the retailer's goodwill, we are sure that our many friends in the Trade will appreciate our difficulties and will continue to favour us with their support.

The new Wincarnis prices ensure profits to the retailer which compare most favourably with the old. The table below indicates how profits of 25% and over are obtainable on this widely advertised and easy-to-see product.

## SPECIAL WINDOW DISPLAY ALLOWANCE

By co-operating with us in the matter of a special window display, you ensure not only an additional profit of 1/6 on every dozen large bottles you sell, but you get a full share of the increased business which our huge winter advertising campaign is certain to result in.

## NEW WINCARNIS PRICES

Price to Public	Quantity	Per Dozen	Less Window Display Allowance	Invoice Price	Cash Discount 30 Days per cent.	Nett Profit		
						s.	d.	per cent.
5/6	1 doz.	54/-	1/6	52/6	2½	14	10	22.47
	3 „	53/-	„	51/6	„	15	9	23.86
	12 „	52/6	„	51/-	„	16	3	24.62
	25 „	52/-	„	50/6	„	16	9	25.38

**DON'T  
MISS  
YOUR  
WINDOW  
DISPLAY  
BONUS**

# WINCARNIS

**THE WINE OF LIFE**

**COLEMAN COMPANY LTD., WINCARNIS WORKS, NORWICH**

# PLASMONA

## THE BLOOD AND NERVE FOOD

SOLD BY CHEMISTS ONLY  
IS NOW  
EXTENSIVELY ADVERTISED TO THE PUBLIC.

P.A.T.A.

Powder form ... in tins ... 2/- and 3/9

Tablet form ... in bottles ... 3/6 and 6/6

PROFIT to chemists 25% on selling  
prices and  $2\frac{1}{2}\%$  on monthly accounts.

*Initial supplies may be obtained from  
your wholesaler or direct from us.*

ADVERTISING MATERIAL AT YOUR DISPOSAL.



### PLASMON, LTD.

66A FARRINGDON STREET, LONDON, E.C.4



This distinctive and extensively prescribed product not only possesses exceptional curative properties in actual skin troubles, but forms a very valuable and delightful toilet accessory.

Its unique value in Sunburn, Insect Bites, and the Various Minor Skin Ailments, and for general use, make it an exceptional line for personal recommendation.



*A Non-Greasy and  
Soothing Application  
for the Skin.*

# COLLOSOL ZINC CREAM

THE CROOKES LABORATORIES  
(BRITISH COLLOIDS LIMITED)

22 Chenies Street, Tottenham Court Road, W.C.1

Telephones:—MUSEUM 3663, 3697, 5757. Telegrams:—“COLLOSOLS, WESTCENT, LONDON.”

Export Distributing Agents:—  
AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.





## GLAXO PRODUCTS AND PRICES

	RETAIL	TRADE
GLAXO, Prescription (Humanised). Known as "Sunshine" Glaxo .. ..	2/-	19/3 per doz.
GLAXO, Prescription (Humanised). Known as "Sunshine" Glaxo .. ..	4/-	38/5 per doz.
GLAXO—Standard Full-cream .. ..	1/6	14/5 per doz.
GLAXO—Standard Full-cream .. ..	2/6	24/- per doz.
GLAXO—Standard Full-cream .. ..	4/6	43/2 per doz.
GLAXO—Standard Full-cream .. ..	7/6	72/- per doz.
GLAXO MALTED FOOD .. ..	1/3	12/- per doz.
GLAXO MALTED FOOD .. ..	2/4	22/5 per doz.
GLAXO MIXER .. ..	2/-	1/7 each.
GLAX-OVO .. ..	1/6	14/5 per doz.
GLAX-OVO .. ..	3/3	31/2 per doz.
GLAX-OVO .. ..	6/-	57/7 per doz.
GLAX-OVO .. (7 lb. tins) ..	16/6	13/3 per tin.
GLAX-OVO MIXER .. ..	2/-	1/7 each.
GLAXO BRAND COD-LIVER OIL (Vitamin-Tested) .. ..	2/9	24/9 per doz.

# "Ostelin"

## VITAMIN D PREPARATIONS

	RETAIL	TRADE
"OSTELIN" (Glycerin Suspension) in 8 c.c. phials ..	2/6	22/6 per doz.
"OSTELIN" for Dispensing (in 2, 4, 8 or 16 oz.), per oz.	6/3	9/5 per 2 oz.
"OSTELIN" VETERINARY, 1 oz. .. ..	4/6	40/6 per doz.
"OSTELIN" .. AMPOULES (3 in box) .. ..	3/-	27/- per doz.
"OSTELIN" .. AMPOULES (10 in box) .. ..	8/6	76/6 per doz.
"OSTELIN" ELIXIR, for Dispensing, 1 lb. .. ..	5/8	4/3 per bot.
"OSTELIN" ELIXIR, for Dispensing, 1 lb. .. ..	10/-	7/6 per bot.
"OSTELIN" with Colloidal Calcium (in boxes of 6 ampoules) .. ..	5/-	3/9 per box.
"OSTELIN" .. EMULSION (cream), 8 oz. .. ..	2/6	22/6 per doz.
"OSTELIN" .. NASAL SPRAY (OSNOL) .. ..	3/-	27/- per doz.
"OSTELIN" TABLETS (45 in bottle) .. ..	2/6	22/6 per doz.
"OSTELIN" TABLETS, for Dispensing (250 in bottle) ..	12/6	9/5 per bot.
"OSTELIN" TABLETS with PARATHYROID (100 in bottle) .. ..	8/9	6/7 per bot.
"OSTELIN" TABLETS with PARATHYROID (500 in bottle) .. ..	40/-	30/- per bot.
"OSTELIN" VETERINARY TABLETS (in tins of 1,000) ..	35/-	26/3 per tin.
OSTOMALT, 1/2 lb. .. ..	2/6	24/- per doz.
OSTOMALT, 1 lb. .. ..	4/-	38/5 per doz.

## Order through your usual Wholesaler



## MALTINE PRODUCTS AND PRICES

	RETAIL	TRADE
MALTINE (Plain) .. ..	2/3	20/3 per doz.
MALTINE (Plain) .. ..	4/-	36/- per doz.
MALTINE (Plain) .. ..	15/6	11/8 each.
MALTINE with HOSPITAL size ..	3/-	22/- per doz.
MALTINE with CASCARA .. ..	5/6	49/6 per doz.
MALTINE with CASCARA .. ..	22/6	16/11 each.
MALTINE with HOSPITAL size ..	2/3	20/3 per doz.
MALTINE with COD-LIVER OIL .. ..	4/-	36/- per doz.
MALTINE with HOSPITAL size ..	15/6	11/8 each.
MALTINE with CREOSOTE .. ..	3/-	27/- per doz.
MALTINE with CREOSOTE .. ..	5/6	49/6 per doz.
MALTINE with HOSPITAL size ..	22/6	16/11 each.
MALTINE with PEPsin and PANCREATIN .. ..	3/-	27/- per doz.
MALTINE with PEPsin and PANCREATIN .. ..	5/6	49/6 per doz.
MALTINE with HOSPITAL size ..	22/6	16/11 each.
MALTO-YERBINE (Liquid) .. ..	3/-	27/- per doz.
MALTO-YERBINE (Liquid) .. ..	30/-	22/6 each.

MALTINE is a malt extract of high diastatic power and contains Vitamin B in notable proportion. In combination with cod-liver oil it is certified to be exceptionally rich in Vitamins A and D, is a completely proportioned food of great therapeutic value. MALTO-YERBINE presents MALTINE in conjunction with an active extract of Yerba Santa, thus providing an admirable nutritive and expectorant mixture which contains no opiate.



## GLAXO ACCESSORIES AND PRICES

	RETAIL	TRADE
GLAXO BABY CREAM (in tubes) .. ..	1/6	13/6 per doz.
GLAXO BABY POWDER (in tins) .. ..	1/-	9/- per doz.
GLAXO BABY SOAP (3 tablet box) .. ..	1/6	13/6 per doz.
(In Irish Free State, soap prices are one-third more.)		
GLAXO FEEDERS, Complete, 8 oz. .. ..	1/6	13/6 per doz.
GLAXO FEEDERS, Spare, 8 oz. .. ..	1/-	9/- per doz.
GLAXO FEEDERS, Premature, 4 oz. .. ..	1/6	13/6 per doz.
GLAXO FEEDERS, Miniature, 2 oz. .. ..	1/6	13/6 per doz.
GLAXO FEEDER MOPS .. ..	0/4	3/- per doz.
GLAXO MATERNITY BELTS (9 in. or 10 in.) ..	7/6	6/- each.
(Belts are not sent on approval.)		
GLAXO MEASURES (Aluminium) .. ..	0/6	4/6 per doz.
GLAXO NURSING TEATS .. ..	0/9	6/9 per doz.
GLAXO TEATS (7 kinds—square or line hole, premature, blind, and 1, 3, or 5 leech-bite) .. ..	4d.	3 4½ per doz.
GLAXO VALVES .. ..	3d.	2 ½ per doz.

Address Inquiries to SALES MANAGER, 56 Osnauburgh Street, LONDON, N.W.1

# A chance to make more profit on **Lysolats** (LYSOL TABLETS)

Entirely **BRITISH**  
owned and made by  
**BRITISH LABOUR.**

PATENT 118667

*The safe form of lysol*

## SPECIAL WINDOW DISPLAY BONUS

### Parcel No. 1.

3 doz. 1/3 size  
@ 10/6 doz. **£1 11 6**

Bonus 1 doz. 1/3 size.

Parcel sells for **£2 8 9**

### Parcel No. 2.

5 doz. 1/3 size @ 2 12 6  
10/6 doz. .. 2 12 6  
1 doz. 2/- size @ 18/- doz. .. 9 0 0

Total cost **£3 1 6**

Bonus—1 doz. 1/3 size.

1 doz. 2/- size.

Parcel sells for **£4 16 6**

### Parcel No. 3.

10 doz. 1/3 size @ 10/6 doz. £3 5 0  
2 doz. 2/- size at 18/- doz. 1 16 0

Total cost .. .. **£7 1 0**

Bonus—1 doz. 1/3 size.

1 doz. 2/- size.

Parcel sells for **£11 5 0**

All orders carriage paid through usual wholesaler.

Buy on Bonus Terms and get the extra tins free.  
Attractive New 3-Panel Showcard sent on request.

**SOLIDOL CHEMICAL LTD.**  
DISNEY STREET, LONDON, S.E.1



**ROBINSON'S of  
CHESTERFIELD**  
*for*  
**CARDBOARD  
BOXES**  
ROUND · OVAL · SQUARE · FOLDING  
ROBINSON & SONS LTD.  
CHESTERFIELD & LONDON



## BEADED BOXES

The boxes illustrated above are finding increasing favour amongst chemists. They are dust-proof and air-tight and of a very attractive appearance.

Fitted with a flanged metal lid which is easily lifted out they form a very useful container.

Blank panel on reverse side for printing in Customer's name and address.

**ROBINSON & SONS, Ltd.**

Manufacturers of ROUND, OVAL, SQUARE AND FOLDING  
CARDBOARD BOXES.

**CHESTERFIELD**



A perfect blend of Malt Extract made from selected Barley Malt only and the finest Norwegian Cod Liver Oil.

# “EDME”

## Malt Extract with Cod Liver Oil

AS USED IN THE LEADING HOSPITALS.

Customer's own name and address printed on label.

*Write for Samples and Trade Terms to:*

EDME Ltd., 122 Regent St., LONDON, W.1.

Telephone: REGENT 6719.  
Telegrams: "EDME, PICCV, LONDON."

# RIDGE'S FOOD

*for Infants and Invalids*

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL  
DISPLAY TERMS ON APPLICATION TO:

ROYAL FOOD MILLS, LONDON, N.16

THE VALUE OF

# “YADIL”

is fully recognised by qualified judges, and it is certified by eminent Public Analysts and Pathologists to be  
:: :: ABSOLUTELY SAFE FOR :: ::  
INTERNAL AND EXTERNAL USE.

It has been sold all over the world, and is being used to-day "back of beyond" as well as in the homes of our own country. Its sale is steadily increasing, old customers are retained, while new ones are being added. One or two displayed bottles will quickly establish business which will prove profitable and regular. Any assistance we can give in the provision of advertising material is yours for the asking. The "Yadil" lines cover

"YADIL" ANTISEPTIC (LIQUID AND PILLS), "YADIL" OINTMENT, "YADIL" PASTILLES and "YADIL" SOAP.

**YADIL PRODUCTS (1925) LIMITED.**  
Sicilian House, LONDON, W.C.1.

## MASON'S EXTRACT OF HERBS

## MASON'S WINE ESSENCES

(SUMMER FLAVOURS)

## CLARK'S LIVER SALT

FOR SUMMER WINDOW  
DISPLAY ALLOWANCES  
AND TERMS - APPLY

**NEWBALL & MASON, LTD.**  
NOTTINGHAM.

## Good! It's Mason's





# The "PBC" SAFETY

## — the quickest selling profit-producing proposition in quality Hot-Water Bottles on the Market

The "Safety" Hot-Water Bottle is guaranteed made from the finest rubber under a Patent Process with sewn and reinforced Seams which eliminate any chance of dangerous bursting or leaking. Its good finish and obvious high quality ensure it being a 100% seller.

Owing to the enormous demand for this Hot-Water Bottle during the Winter Season, we respectfully ask our customers to place orders now for delivery as and when required.

Attractive Showcards and Advertising Leaflets will be sent with all orders if desired.

We are also Manufacturers of Rubber Surgical Goods of every description.

**P. B. COW & CO., LTD.**

46-47 Cheapside, London, E.C.2

ESTABLISHED 1836

An Ideal Holiday or Xmas Gift Line



FIXED BY SUCTION ONLY

A high grade bevelled plate glass mirror fitted with patent angle sucker, which enables it to be placed at any angle or position. Invaluable to Travellers and Holiday Makers, as it can be fixed to a smooth surface either as a shaving or Vanity Mirror.

SHOWS 33% PROFIT!

CFM



**WM. WARNE & CO. LTD.**

29 GRESHAM STREET, E.C. 2.

India Rubber Manufacturers,

Surgical, Chemical, Domestic Articles, Syringes, Water Beds, etc.



**CHEMISTS' FITTINGS**  
OF EVERY DESCRIPTION.  
NEW AND SECONDHAND.

**E. BERG, LTD., 336 Old Street, E.C.1**

**"H.M.G." THE EXTRAORDINARY CAPPING SOLUTION**

— RETAIL CHEMISTS —

Ask your Wholesaler to include a free sample in your next hamper. Manufactured by:—

**H. MARCEL CUEST, OLIVER STREET LOWER OPEN-SHAW, MANCHESTER.**

# Surgical Rubber Goods

VENUS, OWL, GODIVA  
& BALLOON BRANDS.

NOTICE.—Several instances of the sale of VENUS BRAND goods other than their make having been brought to the notice of Joseph Harris & Co., their Solicitors are instructed to take proceedings against anyone (Makers or Vendors) fraudulently using the name or design of VENUS or any imitation thereof in connection with Seamless Moulded Goods.

SEAMLESS MOULDED SURGICAL GOODS, PESSARIES, HOT WATER BOTTLES, URINALS FOR NIGHT OR DAY USE. Wholesale & Export Only.

**JOSEPH HARRIS & CO., Rubber Works, Broadheath, Altrincham.**

**REDUCED PRICES***De  
Luxe*  
**ART. SILK BANDAGES***Crêpsyl* (WOVEN CRÊPE)  
*Dainty and ideal for  
understocking wear.*BANDAGES—widths 2in. to 4in. 1/8 to 3/4 ea.  
BINDER—widths 4in. to 15in. 3/4 to 12/6 ea.**Beware of imitations and copies.**There is only one Crêpsyl Bandage, and  
only one Silvick. Passing off is illegal.*Silvick* (WOVEN STOCKINETTE)  
PRICES REMAIN  
THE SAME.ALL BINDERS REINFORCED TO PREVENT  
SAGGING. SAMPLE CUTTINGS FROM MAKERS.**H. W. LAKE LTD.**  
6 & 7 C.D. Redcross Street  
LONDON, E.C.1**Dependability**is the factor that encourages people to  
demand NORVIC always, and en-  
sures consistent sales. In the win-  
dow or on the counter always display**NORVIC**  
(Regd.)  
**BLUE CARTON  
CRÊPE BANDAGES**Sole manufacturers:  
Grout & Co., Ltd., 35 Wood Street, London, E.C.2.**WE MAKE  
THEM ALL**HERE IN PENWORTHAM MILLS, in  
the heart of England's Cotton County,  
**every** process in the manufacture of  
Surgical Dressings is carried out.

★

BALES OF COTTON from the Cotton  
Countries of the World arrive just as  
they left the cotton fields to pass  
through every process that transforms  
the grey masses of raw cotton mingled  
with leaf and seed and soil, into white  
and fleecy rolls of downy absorbent  
wool.

★

YARNS are wound, bobbins are  
warped, beams are sized, and cloth  
is woven on our extensive plant for  
lint, and gauze, and bandage.

★

CLOTH is bleached, lint is raised;  
gauze is rolled and bandages cut. And  
in the finishing departments all kinds  
of dressings are medicated, sterilized,  
and carefully packed in a thousand  
forms for the markets of the world.

★

WHOLESALE and EXPORT ONLY.

**Vernon & Co. Ltd***Manufacturers, Bleachers and  
Medicators of Surgical Dressings***PENWORTHAM MILLS  
PRESTON, LANCs**

# GARDINER'S OVERALLS

For CHEMISTS & DRUGGISTS

SEND FOR NEW ILLUSTRATED LIST.

Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS ... 6/11, 8/11, 10/6  
 KHAKI DRILL COATS 6/11, 8/6, 10/6, 12/6, 14/6  
 WHITE DRILL COATS 7/6, 9/6, 12/6, 13/6, 15/6  
 BLACK DRILL COATS ... 15/6  
 UNBLEACHED COATS ... 8/6

STOCK SIZES : 34 to 44 chest measure over waistcoat. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid. SPECIAL PRICES FOR LARGE QUANTITIES.

## GARDINER

& CO. (The Scotch House), LTD.

1, 3, 5 Commercial Road, LONDON, E.1

Telephone : Bishopsgate 6751. Established 1839.

BRANCHES :

Leptford, Edgware Road, Woolwich,  
 Clapham Junction and Knightsbridge.

REGISTERED

# Reliance

TRADE MARK

British Seamless Moulded

## HOT WATER BOTTLES

"RELIANCE STANDARD"  
 3 quart .. 4/11 retail  
 2 " .. 3/11 "



WRITE  
FOR  
SAMPLES  
AND  
LIST



The famous  
 "SLEEPING BEAUTY"  
 COMPETITIVE LINE  
 sustains your profit  
 against price cutters.

## Reliance Rubberware Ltd.

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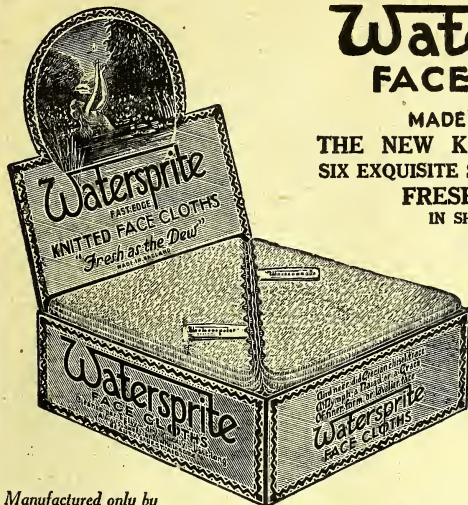
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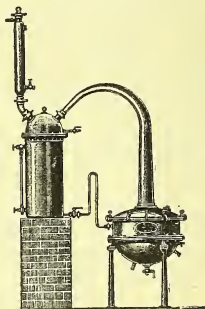
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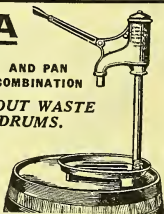
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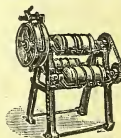
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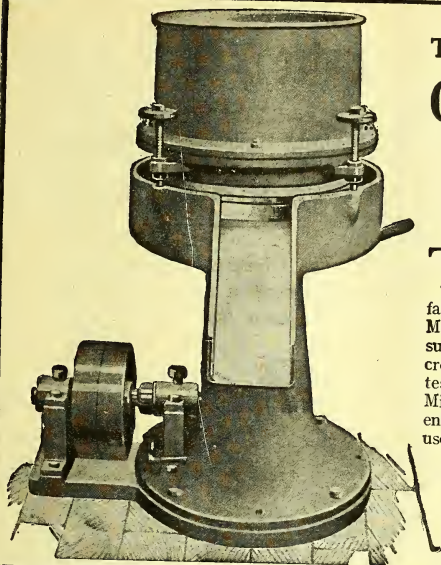
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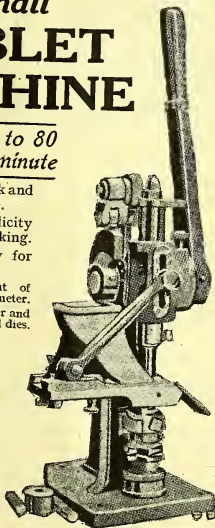
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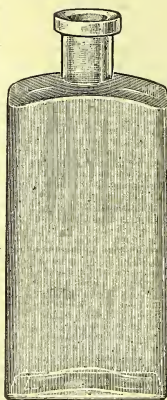
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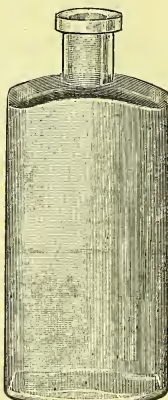
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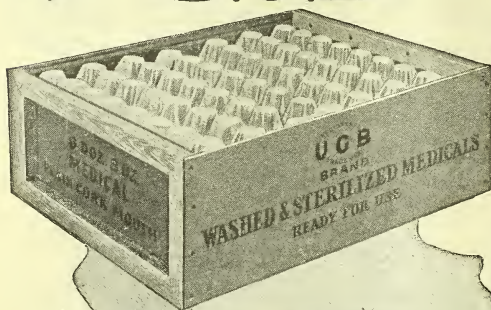


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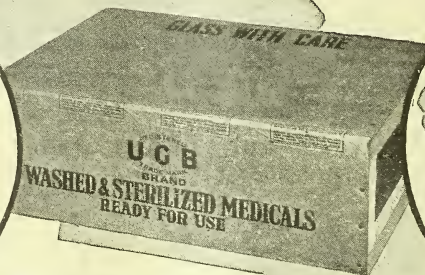
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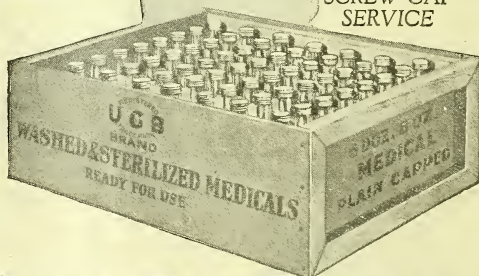
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# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.  
LONDON E.C.4

AUGUST 31, 1929

*This Supplement is inserted in every copy of The Chemist & Druggist.*

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3.-LONDON, W.C.—General Retail and Dispensing Business, with Kodak Agency; returns for current year will exceed £3,000; lease has 19 years to run; attractive shop, well fitted and stocked; price to be arranged.

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5.-LONDON, N.W.—High-class Retail and Dispensing Business; returns for current year will exceed £2,000; gross profit 40 per cent.; good living accommodation; held on lease; price to be arranged; part-payment entertained, £1,000 down and the balance by instalments.

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**W**ANTED, Drug Store in Derbyshire; price moderate; strict confidence. 72/4, Office of this Paper.

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2.—**DEVON**.—Very old-established Business on lease 6 years at small rental; at present returning £20 per week; could be considerably increased with energy and capital. Double-fronted shop, well fitted. No N.H.I. done, but scope for same; no opposition. (1)

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4.—**SCOTLAND**.—Old-established Cash Business in City main road, on lease at low rental; returns £1,700 p.a. Double-fronted shop, beautifully fitted throughout in mahogany; splendid scope for optics. Recommended. (198)

5.—**LONDON, E.**—Old-established Retail and Dispensing Business; returns £5,600 p.a.; good living accommodation; freehold for sale, or would consider granting a lease; strongly recommended. Further particulars on application. (188)

6.—**LONDON, N.**—Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)

7.—**CARNARVON**.—Seaside resort, main road, Retail Dispensing and Family Business for quick sale; rent £78; rates £19; returns £1,400, certified accounts; good N.H.I. and some well-known Proprietaries; further particulars on application. (7)

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9.—**LONDON, E.**—Main Branch Business for quick disposal on lease 7 years at £38 p.a.; returns £15 weekly; living accommodation; good reasons for disposal; suit young, energetic pharmacist. (199)

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12.—**LONDON, N.W.**—On lease, 8 years to run, at rental of £78 p.a. inclusive; returns £10 per week; excellent opportunity for qualified man; good opening for N.H.I. Further particulars on application. (195)

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15.—**HERTS**.—Unopposed Light Country Retail Business, about 28 miles from London, main road to Cambridge; easily worked; no Sunday duty; no N.H.I.; Kodak Agency; returns £2,100; net profit 30%; good all-round stock; nearest opposition 4 miles; good living accommodation; electric light; garden; modern drainage; owner retiring; quick sale desired. (5)

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3.—**HERTS**.—Unopposed Light Country Retail; easily worked; returns £2,100; net profit, £620; good stock; nice house; bath-room; electric light, etc.; owner retiring; price, with freehold, £2,500.

4.—**KENT COAST**.—Sound Light Cash Retail, with Kodak Agency; returns, £1,600; good profits; books properly kept; modern pharmacy with house attached; stock and fixtures worth over £700; price, for early sale, £1,050, or close offer.

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10.—**LONDON, N.W.**—Sound Light Cash Retail, with Kodak and Rexall Agencies; returns average £2,500; good profits; long lease; lock-up shop; well stocked; price for early sale £1,050.

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CHEMISTS' VALUER AND TRANSFER AGENT,  
135 QUEEN ST., NEWTON HEATH, MANCHESTER.

Exclusive offices: Northampton, Southampton, Isle of Wight, Salisbury, Leicester, Blackpool and Manchester. Returns £1500-£350 p.a. Approx. £1000-£5000 required.

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**BUSINESSES FOR DISPOSAL.**

**BIRMINGHAM**.—A good-class Business for Sale in one of the best suburbs; corner position; established over 30 years; returns £2,000; profits exceptional; handsomely fitted; very heavily stocked; good house, with garage and side entrance; easily managed; low rent; on lease good reason for selling; bargain at £1,600. Apply 72/29, Office of this Paper.

**BRIGHTON**.—Excellent Pharmacy doing £20 per week under unqualified management; main road; modern shop; living accommodation; scope for great increase; price moderate; part payment considered. Apply 11, Sydney Street.

**FYLDE COAST**.—Seaside Pharmacy; opening for qualified Chemist; double-fronted corner shop; well fitted and stocked; main business street; no near opposition; good well-built house, private entrance, nice garden and outside buildings; suit chemist wishing partial retirement; business, stock, fixtures and premises £2,000. 69/35, Office of this Paper.

**HEALTHY LONDON SUBURB**.—Good-class Dispensing and Photographic Business with branch shop; turnover about £5,100; long lease; also Post Office with net income £140 per annum (increasing); capital required £2,500; principals only dealt with and banker's reference required. Partnership might be considered. Address "R." care of Harrisons, St. Martin's Lane, London, W.C.2.

**LEEDS**.—Old-established Drug Store, with house, important deal on main road; returns about £1,100; rent and rates £75; splendid opening for N.H.I. and Photography; vendor ill; £550, or near offer. Also West Riding, two Village Chemists, unopposed; one with house, low rent, doing £1,000, good profits, price £550; another doing £1,250, under manager, good N.H.I., price £700, or valuation. Also near Sheffield, well-fitted modern Pharmacy and house, doing 600 scripts monthly; returns £1,000; scope for increase; must sell; price £650, or offer. Marsden, Chemists' Valuer, 44 Sholebrook View, Leeds.

**LONDON, N.E.**—Drug and Photographic Stores; lock up; good stock; Prescribing, with no immediate opposition and in a busy spot, the present takings of £12 weekly could easily be doubled by an energetic, unqualified or qualified man; big scope for N.H.I.; owner purchased country business; price £275 all at 73/17, Office of this Paper.

**EICKSTERSHIRE**.—Genuine, established Business for Sale; takings £35 per week; good, roomy shop, well fitted; prominent position; good living accommodation; no opposition; cause of sale, breakdown in health. Full particulars given on application, to avoid much correspondence. 73/250, Office of this Paper.

**LINCOLNSHIRE**.—Old-established Business; main street; good district; opposition 5 miles; £30-£40 per week; N.H.I.; shop modern; excellent house and garden; sale through direct of owner. Apply, Earl & Lawrence, Estate Agents, Stamford.

**MANCHESTER SUBURB**.—Corner position on main road; old-established Dispensing and Photographic; returns increasing; owner has other interests; rent £90; lease 6 years; good house, with private entrance; could be let; price about £750; suitable for multiple concern. 74/2, Office of this Paper.

**MIDDLESEX, METROLAND**.—First-class Dispensing and Family Business for Sale; good residential neighbourhood; prominent corner position; large attractively fitted shop; well stocked; good living accommodation; modern conveniences; option freehold or let on lease; no opposition; exceptional prospects; indifferent health reason for disposal; £5,000, or offer. 71/14, Office of this Paper.

**SHEFFIELD**.—Returns £2,000; nice neighbourhood; house attached; Kodak Agency; nicely fitted; price £1,500. Vendor would dispose of property, which is freehold, for £1,500 if desired. 72/25, Office of this Paper.

**SOUTH COAST Resort**.—Well-fitted, lock-up Pharmacy for Sale. Disposal; well situated in busy thoroughfare of large residential neighbourhood; splendid opportunity to secure a well-established and increasing business; turnover £1,250, at exceptional profits; £900 or near offer to effect a quick sale. 73/15, Office of this Paper.

**CHARLES E. NAYLOR**

CHEMISTS' VALUER

Undertakes Stocktaking and Valuation  
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170 Vesper Rd., Kirby All, Leeds Phone: Horsforth 324

**SHEFFIELD**.—Well-situated Chemist's Business in pleasant part of the city; living accommodation; turnover £900; net profit £276; ample scope for increase; splendid reason for selling; to take advantage of a good opportunity; price £400. 71/19, Office of this Paper.

**SOUTHERN COUNTY**.—Old-established Business, with ten-roomed freehold house; net profits £550. 72/27, Office of this Paper.

**WEST RIDING YORKSHIRE** (urban district).—Good Mixed Chemist's Business for Sale, with house and shop; good Photographic and D. & P. Prescribing; N.H.I. average 400 scripts monthly; Kodak and Rexall Agency; plenty of scope for live man; excellent position; near three doctors. Apply for particulars, Faulkner, c/o 2 Model Road, Armley, Leeds.

**YORKSHIRE** (West Riding).—An old-established Chemist's Business for Sale; General Retail, heavy N.H.I., Wine Licence; excellent house; valuation stock and fixtures; reasonable goodwill; present hands 20 years; proprietor wishing to devote all time to wholesale. For particulars apply 71/7, Office of this Paper.

**A** N old-established Chemist's Business, situated in busy main thoroughfare in Wigan; well stocked and fitted; at present under management; owner wishes to retire, accept of stock and fixtures, about £750; low rental; lease if required. 70/7, Office of this Paper.

**D** RUG Store, N.W.1 district; good opening for N.H.I. and Photography; reason for sale, owing to owner's ill health; qualified; price £150, or near cash offer. Write 73/51, Office of this Paper.

**D** RUG and Photographic Stores on easy terms, fairly fitted and stocked, in densely populated neighbourhood; large shop, good storage and dry basement; rent £1 per week inclusive; 5 years' agreement; no near opposition; big scope for N.H.I.; price £200. Full particulars, 71/18, Office of this Paper.

**EXCEPTIONAL Bargain**.—London, S.W.—High-class Residential Business in delightful new house, with ample living accommodation; lease 17 years; moderate rental; Prescribing; Kodak, etc.; returns £26 to £30 weekly; good prospects; well fitted and stocked; sound reasons for disposal; accept £950 cash for quick sale. "Statin," 73/6, Office of this Paper.

IN BANKRUPTCY, re H. A. TIMMS.

**FOR** Sale by Private Treaty. Retail Chemist's Business, including Stock, Fixtures and Fittings and Lease, No. 31 Abington Square, Northampton. For full particulars apply to Kilby & Fox, Incorporated Accountants, Drury Chambers, Northampton.

**FREEHOLD**, including old-established Chemist's Business, for Sale in busy Yorkshire market town; profitable concern; accounts figures; owner retiring; two shops, with living accommodation and offices; price, £7,500, including a valuable goodwill; s.a.v. Full particulars from R. J. Low & Sons, Rating Surveyors, 65 Chancery Lane, W.C.2.

**G**ENUINE Business, West of England; established 20 years; turnover £2,000; net profit £500, with optics; excellent opportunity for young man with Chemist and Optical qualifications; fine house; long lease. 74/4, Office of this Paper.

**G**ENUINE Offer.—Old-established, high-class Retail and Dispensing Business; main road, Bayswater district; prominent position. Other Agencies; returns £2,100; net profit 33 per cent., can be increased; well stocked; nicely fitted in mahogany; good lease at exceptionally low rent; perfectly sound and honest reason for sale; every investigation; bank reference; no agents. Apply 72/16, Office of this Paper.

**SMART**, compact little Pharmacy, on main road, in large S. Midland town; Kodak Agency; splendid opening for Optician; taking £50 per month and increasing; good house; bath, electric, gas, and soon to be doubled under current and electric power; owner retiring; must sell; good reason for disposal; will accept valuation stock and fixtures, approximately £500. 73/8, Office of this Paper.

TO CHEMISTS.

**T**O be Sold as a going concern, owing to death of proprietor, an old-established business as Chemist and Stationer carried on for over 40 years at Ramsey, Huntingdon, by the late Mr. O. G. Howe. The house, shop and premises, which are included in the offer, are situated in the High Street, Ramsey, and are well adapted to the trade. For further particulars, and to view, apply to Messrs. Sergeant & Son, Solicitors, Ramsey, Huntingdon.

**P**HARMACY, in present under management; returns 1928, £800; this year up to the present approximately £20 weekly, unlimited scope; N.H.I.; lock-up shop; 10s. weekly rent; lovely surroundings; could easily be doubled; splendid opportunity for building up a local and a big practice; death vacancy. What offers? 155/496, Office of this Paper.

**UNIQUE OPPORTUNITY**.—Cash Retail Business in Sussex (inland) for immediate disposal, owner having other interests; average turnover £1,700 per annum; long lease; large house; stock and fixtures £700; price £1,050 for quick sale; "Genuine," 73/53, Office of this Paper.



## AMALGAMATION.

MANUFACTURERS OF

### TOILET PREPARATIONS

wish to amalgamate their business with another Company having own selling organisation and export marketing facilities. The existing company has 5,000 accounts with Ladies' Hairdressers, Chemists and Wholesalers, but lacks adequate capital for development. The products are really fine sellers if suitably backed, show an audited gross profit of 66%, and have a turnover of approximately £6,000 average for last 5 years.

Enquiries are invited from principals only to—

**W. FOULSHAW BAKER,**  
ACCOUNTANT,  
93 Mortimer Street, W.1.

## APPOINTMENT.

BIRMINGHAM CENTRAL TECHNICAL COLLEGE.

APPLICATIONS are invited for the post of Lecturer and A Demonstrator in Pharmacy. The position is a whole-time appointment, commencing, if possible, on 1st October next. Candidates must possess a University Degree in Pharmacy or the Pharmaceutical Chemists' qualification of the Pharmaceutical Society. Preference will be given to applicants who have had some teaching experience. Salary in accordance with the Burnham Scale. Particulars of the appointment will be sent on receipt of a stamped addressed foolscap envelope, by the Principal of the Central Technical College, Suffolk Street, Birmingham, to whom applications, on the special form provided, should be returned by September 14th.

P. D. INNES, Chief Education Officer.

## AGENCIES.

LONDON firm, well known, manufacturing a very reliable product and now extending plant, desires to connect with firm able to distribute to Chemists, etc.; the line is of good utility, competitive, and is in increasing demand; correspondence invited from firms of standing and established sales force. Replies to P.C.B. 59/58, Office of this Paper.

CHEMIST Manufacturers' Agents, possessing powerful connection and first-class organisation, desire to get into touch with reputable houses desiring efficient and profitable representation in the counties of Northumberland and Durham. As we are only open to accept one or two further lines this should prove a unique opportunity to manufacturers of standing. Please address correspondence (samples may be submitted) to Secretary, 3 Sea Road, Fulwell, Sunderland.

## PREMISES FOR SALE.

BRIGHTON.—Lease for Sale; shop premises and warehouse B attached; 2,500 sq. feet; main, busy thoroughfare; very centre of town; good position for general trade and side lines. 69/20, Office of this Paper.

TO CHEMISTS.—Shop and dwelling-house in thickly populated district; good opening for Chemist. Russell & James, Estate Agents, 215 Uxbridge Road, West Ealing.

## PREMISES FOR DISPOSAL.

SUITABLE for Chemist, Shop in unique position, completed within three weeks; large trade assured; lease for disposal on advantageous terms. Write for full particulars to 72/10, Office of this Paper.

## TENDERS INVITED.

SEVERALLS MENTAL HOSPITAL, COLCHESTER.

The Committee of Visitors invite Tenders for the supply of Drugs for the six months ending 31st March, 1930.

For the form of tender, apply, enclosing stamped addressed envelope, to the Clerk of the Hospital, Severalls Mental Hospital, Colchester.

Sealed tenders must be received not later than the 14th September, 1929, addressed to the Committee of Visitors, Severalls Mental Hospital, Colchester.

The Committee do not bind themselves to accept the lowest or any tender.

## PARTNERSHIPS.

NOTTINGHAMSHIRE.—Young qualified lady or gentleman wanted to take half-share in established Pharmacy; guaranteed share of profits at least £5 weekly, with possible considerable increase; capital required £450. 72/21, Office of this Paper.

## FOR SALE

A WELL-ESTABLISHED BRAND OF

### HAIR-REMOVING CREAM

The brand is admittedly superior to all others in that it removes superfluous hair in less than half the time and has none of the nauseating odour which ladies find so objectionable in the better-known preparations. The Advertisers have not the capital to develop their product and prefer to sell to someone who can realise the genuine opportunity that exists to win the world market. The product shows a gross profit margin of 66%, and the goodwill, formula, and existing connections will be handed over to purchaser.

Enquiries are invited from principals only to—

**SIMON, HAYNES & CO.,**  
117-123 Great Portland Street, W.1.

## FINANCIAL.

A HALF-SHARE in a company can be acquired on a fair basis, comprised of three shops, well established, with increasing annual turnover; about £2,500 further capital required for development; every investigation allowed by solicitors and accountants. Apply: Chemist, c/o Farman, Daniel & Co., Solicitors, Bank Chambers, 329 High Holborn London, W.C.

## SITUATIONS OPEN.

RETAIL [HOME].

BIRMINGHAM.—Qualified Assistant, M.P.S., male; must have a practical knowledge of Photography in all its branches; keen, efficient Salesman, able to take charge. Apply, stating age, salary required, when disengaged, and previous experience, 69/34, Office of this Paper.

BIRMINGHAM.—Young, unqualified Assistants; male or female; experienced Window-dressers and Dispensers. Apply, with full particulars, to Managing Director, Hedges (Chemists), Ltd., Dale End, Birmingham.

BOURNEMOUTH.—Qualified Assistant, capable of being left in charge of good-class Dispensing and Photographic Business. State age, height, experience, married or single, salary (outdoors), when disengaged, with photo and references of two last engagements and how long held. 73/9, Office of this Paper.

LEICESTER.—Qualified young lady required; must be good Dispenser. State experience, age and salary. 73/25, Office of this Paper.

LONDON, N.—Smart Junior (male) required (outdoors); Dispensing, Retail and Photographic. Give particulars of age, height, experience, salary required, etc. Send photo if possible, which will be returned. Apply 73/34, Office of this Paper.

LONDON, S.W.—Qualified gentlemanly Assistant as Senior, Dispensing, Retail and Photographic. Give particulars of age about 35, for high-class Dispensing business; good Counterman. Send details as to age, salary and previous experience. 74/15, Office of this Paper.

LONDON, S.E.—Qualified man, reliable, wanted at once for branch; middle-class Retail with N.H.I. and Photography; permanency to steady man; Locum considered. State age and salary required to 155/501, Office of this Paper.

LONDON.—Opportunity occurs to introduce N.H.I. to branch. Doing well without it; good Salesman and Window-dresser; position being based on salary and commission, plus share in N.H.I. Give age, experience, and salary willing to commence on. 72/34, Office of this Paper.

LONDON (near Baker Street).—Unqualified male Dispenser and Counterman; age 21-30. State salary required, age, and recent experience to 73/3, Office of this Paper.

LONDON.—Smart, competent, unqualified Assistant wanted for good middle-class Dispensing and Retail business, with N.H.I.; permanency. Please give full particulars of experience, age, height, salary required (outdoors), etc. D. H. Owens, 175 Ladbroke Grove, London, W.10.

LONDON, S.E.—Unqualified Junior (male) for September 23; must have had good Counter and Dispensing experience. Apply, stating full particulars, Hodges, 151 Rushey Green, Catford, S.E.6.

LONDON, W.5.—Smart young Junior Assistant (male) required for high-class Dispensing business. Reply, stating experience, age and salary required, etc. to A. E. Weston, 8 Sandringham Place, Ealing, W.5.

LONDON, N.W.—Junior Assistant required (male); must be capable Counterman and Dispenser. Apply, stating experience, age, height and salary required (photo if possible), to 69/56, Office of this Paper.

LONDON.—Junior unqualified, for October, also Apprentice, with Preliminary, for good-class Retail and Dispensing business. Full particulars to T. J. Morris, M.P.S., F.S.M.C., F.I.O., 20 St. James' Parade, Muswell Hill, N.10.

**MIDDLESEX**.—Improver or Junior wanted for Family business, with Dispensing, Counter and Photographic experience, to commence September 16. Please state full particulars of experience, age, salary required to A. Wood, 116 High Street, Brentford, W.

**NORTH WALES**.—Manager required for branch in industrial area a few miles from Wrexham, salary, commission, share of profit, house; excellent berth for good man. Full particulars to L. Rowland & Co., Ltd., Chemists, Wrexham.

**OXFORD**.—Unqualified male Junior Assistant for high-class branch business; duties chiefly Dispensing with modicum of Counter work; must be reliable and willing. Full particulars in first letter, photo, salary, to Druce & Co., 118 High Street, Oxford.

**SOUTH COAST**.—Qualified Assistant; 25-30 years; well up in Photography; able to dress good-class Windows; good Counter-hand. Give full particulars; permanency. 72/17, Office of this Paper.

**SOUTH KENSINGTON**.—A smart qualified Assistant required, commencing September 16; must be used to high-class business and have London experience; salary £5 5s. Apply, stating age and full particulars, to 72/18, Office of this Paper.

**VACANCY** occurs in a high-class West-End Dispensing business for a capable and gentlemanly Assistant used to high-class Dispensing and Pharmacy. Apply, with full particulars, Frank A. Rogers, 1 Beaumont Street, W.1.

**ASSISTANT**, young male, for a middle-class Family business, chiefly for Dispensing; must be a thoroughly capable Dispensing and Window-dresser and a quick tidy worker. Apply, with full particulars, photograph if possible (which will be returned), to G. H. Mack, 62 Brockley Rise, S.E.

**COMPETENT ASSISTANT**; good experience and Salesmanship essential; able to control and supervise juniors; permanency. Apply, with full particulars, giving names of references and enclosing photo, to L. Rowland & Co., Ltd., Chemists, Wrexham.

**IMPROVER**, also Apprentice, required immediately. State age, experience, and wage required. Horton, High Street, Gravesend.

**JUNIOR ASSISTANT**; qualified. Apply, stating experience, salary required, age and height, with photo if available, and references, Osborne, 113 Broad Street, Reading.

**JUNIOR ASSISTANT** required immediately; good Counterman and well up in Developing and Printing; acquaintance with Veterinary business an advantage. Enclose references and photograph to A. Mackenzie Thomas, Chemist, Leominster, Herefordshire.

**JUNIOR** wanted, end of September; easy hours; no Sunday duty; facilities given to attend Part I Classes; must be capable Dispenser. Full particulars, please, age, experience, references, and salary required (outdoors). Dunn, 10 Horseley Fields, Wolverhampton.

**JUNIOR** unqualified Assistant required for September 23; must be used to a good-class Dispensing and Photographic business. Full particulars to R. C. Harrison, Beacon Hill, Hindhead, Surrey.

**LADY** Dispenser-Book-keeper required for Doctor in North London suburb; age about 25. Apply, with full particulars and salary required, to a Dispenser, Duncan Flockhart & Co., 155 Farringdon Road, London, E.C.1.

**LOCUM**; qualified; male; September 16 to 23 inclusive; no Sunday duty. Full particulars to Hey, Chemist, York.

**LOCUM**, young, unqualified, required for fortnight commencing September 16. Please give references, salary required, etc., in first letter. J. E. Booth, Chemist, Farnborough Road, North Farnborough, Hants.

**LOCUM**, qualified, required from September 6 to 14; age 24-30. The usual particulars to John, 118 Cowley Road, Oxford.

**QUALIFIED** Chemist required for fortnight early September for nominal supervision of a Kensington Pharmacy; age immaterial. Particulars and terms to "Anon," 73/19, Office of this Paper.

**QUALIFIED** Manager for new branch in South London suburb; preferably married; good living accommodation; good prospects for keen young man; Optical knowledge an advantage. 73/7, Office of this Paper.

**QUALIFIED** Superintendent required, single, age 35-50; Dispensing, Counter, Photographic experience essential; must be competent, energetic and well recommended; comfortable permanency to suitable applicant. Apply, giving full particulars in first letter, salary required (outdoors), Bertram Lane, Ltd., Chemists, Portishead, Bristol.

**QUALIFIED** Chemist required to manage small working-class Chemist's business. Please state age and salary required. Apply Robinson, 65A Blackwell Street, Horsefair, Kidderminster, Worcestershire.

**QUALIFIED** Assistant, age 25 to 30, capable of taking charge mixed business, permanency, wanted by end of September. State wages, full particulars, and references. F. Rideal, Chemist, High Street West, Glossop.

**QUALIFIED** Manager (male), under 35; busy middle-class; no Sunday or Wednesday duties; energetic business getter wanted; state salary (outdoors), age, height, when free; moderate references essential. Edward Jones, Chemist, 139 High Street, Guildford, 40 minutes from Waterloo.

## London REPRESENTATIVE

required for Great Britain, by

## Large NEW YORK DRUG FIRM

Applicant must be thoroughly acquainted with the Wholesale Trade requiring Botanical Drugs and must have ability in both buying and selling.

### REPLIES WILL RECEIVE STRICT CONFIDENCE

*P/Y 42, Office of this Paper.*

**QUALIFIED** Manager wanted, with thorough knowledge all branches of modern pharmacy; must be industrious, good Window-dresser, good appearance; Optical an advantage; credentials must bear strictest investigation; good salary to right man; permanency. Apply 1245 Ashton Old Road, Higher Openshaw, Manchester.

**REQUIRED**, by September 22, a gentlemanly Assistant (qualified), age about 24; must be an accurate Dispenser and good Counterman; accustomed to high-class Dispensing and Retail business; highest references essential. Apply in first instance by letter, stating fullest particulars as to experience, salary required, enclosing photo, to Barnes & Marsh, 164 Upper Richmond Road, Putney, S.W.15.

**ST. MARY'S HOSPITAL, W.2**.—Medical Dispensing. Wanted, an Assistant Dispenser (male), not over 30; Minor qualification essential; salary £200 per annum, with luncheon and tea; hours 9 to 5; late duty and Sunday duty every fifth week. Applications, stating age and experience, and accompanied by not more than three testimonials, to be sent to the Dispenser.

**UNQUALIFIED** Assistant wanted for September 9 in good-class business; all-round experience needed. Please give full particulars first letter, with references. "F. W. W.", Chemist, 285 Brockley Road, S.E.4.

**UNQUALIFIED** Junior; must be quick, accurate Dispenser and have practical knowledge of display; excellent experience for willing worker. Particulars, references, salary required, etc., to Bruce, Chemist, Westcliff-on-Sea.

**WANTED**, part-time lady Dispenser, Lady Doctor's Surgery, Fulham; evenings 5.30-9, three mornings weekly; salary £2. Apply 71/38, Office of this Paper.

**WANTED**, for branch, young Junior Assistant; just completed apprenticeship preferred. State full particulars of previous experience, age, salary required, and when disengaged to P. Jeyes & Co., Ltd., Chemists, Northampton.

**WANTED**, end September, two Juniors, a gentleman to be a good Window-dresser, a lady to be well up in Toilet Aide Department, both to have been apprenticed to private chemists, for good-class Dispensing business; all photos will be returned. A. Crick, 70 Bank Street, Maidstone, Kent.

### WHOLESALE.

**A CAPABLE** Assistant, unqualified, age about 40, wanted as Working Foreman in a small Lancashire Wholesale House, doing business chiefly with medical men; duties to control small staff, supervise and assist in general warehouse work. Apply, with full particulars, to 72/20, Office of this Paper.

**ADVERTISER**, keen, ambitious, with ability, 15 years' first-class Retail experience, highest references, seeks position as Salesman-Representative known house; expenses and commission basic; car driver; any territory. "London," 74/13, Office of this Paper.

**ADVERTISING**—Compiler wanted by Wholesale Chemists for trade and medical printed matter; previous advertising experience desirable; age about 25 to 30; qualified or unqualified. State salary required and experience to 155/495, Office of this Paper.

**EXCELLENT** opportunity occurs for ambitious and progressive Salesman with good Chemist connection in South Western England to represent well-established firm of London Manufacturing Chemists specialising in Packed Medicinal and Toilet Preparations; liberal terms to right gentleman. Full particulars first letter. 155/500, Office of this Paper.

**EXHIBITIONS**.—Wanted, gentleman able to design and oversee exhibits, window displays, showcases and fittings; must be accustomed to erect large and small stands at exhibitions. State experience, age and salary wanted to 155/494, Office of this Paper.

**MEDICAL EXHIBITION**.—Two gentlemen required for stands at London Medical Exhibition, October 14 to 18 inclusive; applicants should have first-class knowledge of Therapeutics. Coates & Cooper, 41 Great Tower Street, E.C.3.



**REPRESENTATIVE**.—A leading firm of Manufacturing Pharmacists will shortly require a thoroughly capable, energetic Representative, not over 35, for the London district; must be of gentlemanly appearance and address, trained in Pharmacy, but qualification not essential; experienced in interviewing Doctors and also a keen and successful salesman to trade buyers; a permanent and progressive position assured to the right man. Applications in own handwriting, with full particulars as to age and previous engagements, to "Alpha," 155/497, Office of this Paper.

**REPRESENTATIVE** wanted by Manufacturers of well-known, well-advertised product to call on Wholesale Druggists in Lancashire, Yorkshire and Northern Counties; salary, commission and expenses; must be well educated and well known to wholesale druggists in North of England. Replies, giving fullest details, to 155/498, Office of this Paper.

**REPRESENTATIVE** wanted by well-known Manufacturing House with old-established connection to interview the Medical Profession, Chemists, and to call on Institutions; area, North-West England; a thorough knowledge of Drugs, Surgical Instruments and Packed Proprieties essential. Write, giving full particulars, to Managing Director, Reynolds & Branson, Ltd., 15 Brigsteed, Leeds.

**SEVERAL** London and Provincial Representatives are required to sell an inexpensive article which supplies a long-felt want and is without competition. Remuneration will be by commission on a particularly substantial basis, and only those with real selling ability and a good connection among good retailers should reply, giving the fullest information as to the ground covered, to Box C.199, T. B. Browne's Advertising Offices, 163 Queen Victoria Street, London, E.C.4.

**SOUTHAL BROS. & BARCLAY, LTD.**, Birmingham, require an additional representative for Birmingham area; preference given to qualified man. Apply by letter only.

**TOILETS**.—An exceptional opportunity is awaiting Representatives calling on Chemists and Gentlemen's Hairdressers; the line is already proved a spectacular repeater wherever introduced; generous bonus, liberal profits, outstanding display, and a super-attractive pack help to make it an outstanding selling proposition and one which in the right hands should furnish you a handsome addition to your income. If you are a real salesman and work intensively, preferably with your own car, we shall be interested to hear from you. 155/499, Office of this Paper.

**TRAVELLERS** open for additional commission among Retail and Wholesale connection; please state district covered and lines carried; generous terms to right men seeking permanent engagement; P.A.T.A. and other popular lines. Write (in confidence) Lion Walkers, Tottenham Hale, N.17.

**WANTED**.—A Salesman working on Chemists to sell Pharmaceutical Specialities on commission. 70/11, Office of this Paper.

#### (COLONIAL, INDIAN AND FOREIGN.)

**INDIA**.—A vacancy occurs on the staff of a well-known firm of Manufacturing Chemists for a Representative in India; no previous experience is necessary, but applicants must be qualified, about 25 to 24 years of age, single, and show some aptitude for selling. Apply in the first instance, enclosing a copy of a recent photograph, to 155/498, Office of this Paper.

**INDIA**.—British firm of Wholesale and Retail Chemists in Calcutta require a qualified Minor Assistant, about 25, single, careful and neat Dispenser, with at least 2 years' experience as qualified assistant; 4 years' agreement; salary, first year, Rs. 500 monthly (about £37 15s.); second year, Rs. 525 (about £39 12s. 6d.); third year, Rs. 550 (about £41 10s.); fourth year, Rs. 575 (about £43 7s. 6d.). Apply, giving particulars of experience, etc., to P.C.B. 8/17, Office of this Paper.

**NAIROBI**.—Howse & McGeorge, Nairobi, require the services of a qualified male Assistant, prepared to sail early, age 25/30, with good all-round experience and knowledge of Photography; 4 years' agreement; second class passage paid out and home; salary £50, £50, £37 10s., and £40 per month for the first, second, third and fourth years respectively. Reply, with copies of references and photograph, to "Zebrax," 84 Fenchurch Street, E.C.5.

**PENANG**.—Vacancy occurs for qualified Assistant, under 50, unmarried, in good-class pharmacy; Optical qualification an advantage; 4 years' agreement; second class passage paid out and home; salary £35, increasing to £43 15s. per month. Applications, with particulars, to "E. L.," Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool.

### SITUATIONS WANTED.

#### RETAIL [HOME].

**A1 REFERENCES**.—Qualified Chemist and Optician (J.C.O.Q.), 31, married, abstainer, now managing both departments, London, seeks Management with scope; living accommodation preferred; own Optical equipment; would consider view to successive interview within 50 miles London. Apply 70/50, Office of this Paper.

**A.A.**—Qualified, 28, desires position as Manager or Assistant in good-class business; London only; 12 years' London and Continental experience; business ability; good appearance; fluent French. 75/15, Office of this Paper.

**A.A.**—EXPERIENCED Locum or Assistant; unregistered; trustworthy; sober. "Gentian," 15 Brixton Road, S.W.3, desires

**A BRANCH Manager**, under 50, M.P.S. F.S.M.C., desires A permanency with House, London district preferred; Optics optional; irreproachable character; conscientious and efficient; tactful; ready; London or provincial; experience; disengaged soon; interview 75/24, Office of this Paper.

**A CAPABLE** and experienced qualified Chemist; permanency or Locum; disengaged September 8; middle-aged. "Chemist," 415 High Road, Leytonstone, E.11.

**A LOCUM**; disengaged; excellent references and experience; moderate terms. "Reliable," 129 Praed Street, London, W.2.

**A PART**- or full-time situation required in South London by experienced Pharmacist. 71/21, Office of this Paper.

**A QUALIFIED** man seeks permanency in London; City or West-End preferred; keen Saleswoman; quick, accurate Dispenser, good knowledge Photography; free September 16. "M.P.S.," 34 Junction Road, N.19.

**A QUALIFIED**, young, married, capable, requires permanency as Manager, with house attached preferred; excellent experience, Photography, Wireless; excellent references; free; height 5 ft. 11 in. "M.P.S.," 59 High Street, Pontypriid, South Wales.

**A QUALIFIED**, experienced Manager, 29, desires change for further scope in Optics; permanency; London (West or South-West preferred). "F.S.M.C., F.I.O.," 10 Hebron Road, W.6.

**A S Manager**, M.P.S., F.B.O.A.; exceptional experience; first class references; permanency, with house preferred; keen business man. 74/1, Office of this Paper.

**A**—An experienced, good man, general all-round business; has used quick trade and heavy panel; has been Manager and Locum for several years. "G.," 130 Scott-Billis Gardens, N.W.3.

**ASSISTANT Manager**, unqualified, but possessing exceptional all-round 20 years' experience; seeks position of trust where ability is required; thorough knowledge of all departments; educated; highest references; disengaged. 74/25, Office of this Paper.

**ASSISTANT**, unqualified, 25, desires post with high-class London Pharmacy; energetic; experienced all branches; good appearance; free October 1. 75/27, Office of this Paper.

**ASSISTANT (lady)**; unqualified; 8 years' all-round experience; quick Dispenser; free now. 74/5, Office of this Paper.

**ASSISTANT**, 25; disengaged; good Dispensing Counter and Photographic experience; well recommended. G. Ramin, 41 Westcott Square, W.6.

**ASSISTANT**, unqualified, 28, desires change; all-round man; first-class experience; an Yorks. or Midlands preferred.

"J. W.," 6 South Parade, Doncaster.

**ASSISTANT**; 21; Part 1; disengaged; five years Middlesex and West London experience, all branches; Teeside or North-East Counties preferred. Addis, 9, Queen's Terrace, St. John's Wood, W.8.

**ASSISTANT**; unqualified; Locum or permanent; town or country; moderate salary; experienced. Gibbs, 64 Tachbrook Street, Westminster, London, S.W.1.

**ASSISTANT**; unqualified; can manage; disengaged September 5 to 14 and September 30. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

**ASSISTANT** or Manager; qualified; 23; tall; excellent references; disengaged; interview in or near London. Replies to 71/12, Office of this Paper.

**ASSISTANT**, unqualified, 25, married, desires change; 83 years' all-round experience; excellent references. 71/15, Office of this Paper.

**ASSISTANT**, unqualified, married, age 34, abstainer, 21 years' all-round experience, 9 years Managing Assistant, take sole charge, buying, etc., courteous, Dispensing, Window-dressing, Photography, Developing, Printing, Enlarging, desires position with unfurnished accommodation (if possible); permanency; excellent references; interview London or suburbs only. Stokes, 65 Churchfield Road, Acton, W.5.

**ASSISTANT**.—Young gentleman requires post, evenings, whilst at college; experienced, and accurate Dispenser; Birmingham district. F. B. Gupwell, 11 Leslie Road, Edgbaston.

**A ASSISTANT** requires permanency in London; West-End experience; age 40; tall; free September 14. Westrip, 1 Meadow Road, Westgate-on-Sea.

**BRANCH Manager**; qualified; thoroughly experienced; competent; genuine service; disengaged (ex-Locum) September 21; satisfaction undoubted; locality optional. "A. E. J.," 5 Darent Road, Stamford Hill, N.16.

**CAPABLE** young man, 24, qualified; excellent experience, including 2 years Harrogate and 2 years managing; Assistant or Manager; West Riding preferred. Apply 74/6, Office of this Paper.

**CAPABLE Assistant**, unqualified, 35, seeks permanency. 70/15, Office of this Paper.

**CHEMIST**, thoroughly reliable, experienced all branches, well recommended; desires engagement as Manager; temporary or permanent. South 74/5, Office of this Paper.

**COMPETENT**, qualified Manager, age 29, thoroughly experienced, desires progressive position; town or country. "P.," 11 Limerston Street, S.W.11.

**DISENGAGED** Pharmacist; experienced; free after September 7; Locum or permanency; moderate salary. "Pharmacist," 67 Western Road, Ealing, W.5.



**D**ISENGAGED, unqualified, age 35, height 5 ft. 8 in., abstainer, energetic, Window-dressing, Counter, Photographic, etc., good references, seeks permanency. Burley, 120 Victoria Road, London, N.W.6.

**D**ISPENSER-BOOK-KEEPER (lady); Apothecaries' Hall; London experience; disengaged; Doctor or Institution. Edwards, 8 Giesbach Road, Highgate, N.19.

**D**ISPENSER (male), 35, qualified, desires post; accurate; total abstainer; single; moderate salary; good references. 71/35, Office of this Paper.

**D**ISPENSER, experienced (Hall), desires part-time work. Ellis, 61 Glenhorne Road, Hammesmith.

**E**NERGETIC Assistant (Irish), 24 (Part 1); Public School education: 5 years' experience, Counter and Dispensing; excellent references; permanency desired (England preferred). Write 70/28, Office of this Paper.

**E**XPERIENCED Manager; Locum; Major; disengaged September 6. N.H.I., Photo, Prescriber; references. "A," Ucal Pharmacy, Lydney, Glos.

**F**AIRWEATHER, R. B., Locum.—The whole September vacant for holiday relief work; reliable; high references. 286 Kingsland Road, E.8.

**G**ENTLEMANLY Assistant, unqualified, requires post for one month; disengaged now; first-class Dispenser and Counter-man; highest references; anywhere. Maidens, 42 Dixon Street, London.

**I**MPROVER, 19, desires situation with Chemist in East Lancashire or West Riding; knowledge of N.H.I. and Private Dispensing, Photography, Window-dressing, Counter, etc.; good references. Write 71/11, Office of this Paper.

**J**UNIOR, tall, good appearance, well trained, excellent Counter-man, requires post; West-End preferred; free September 30. C. R. Wood, 4 Heron Court, Richmond, Surrey.

**J**UNIOR Assistant or Improver (lady) requires post; free now; highest references. Apply Blinn, Old House Farm, Thakeham, Pulborough, Sussex.

**L**ADY Dispenser (Hall) desires post with Doctor or Institution in South-east London; eight years' experience. 72/1, Office of this Paper.

**L**ADY Dispenser-Book-keeper, qualified, seeks post; experienced knowledge Ultra Violet Ray administration, Secretarial duties, etc. Norton, 3 Lowestoft Road, Gorleston.

**L**ADY Dispenser (Apothecaries' Hall) requires post in London as Assistant, Dental Nurse; 10 years' experience. "A. H.," 156 Elgin Avenue, W.

**L**ADY, qualified, desires post, London, 10 a.m. to 5 p.m.; small salary; experienced; excellent references. 71/34, Office of this Paper.

**L**ADY Dispenser (Hall) seeks post with Doctor, Hospital, or Chemist; disengaged now. 71/5, Office of this Paper.

**L**ADY Dispenser (Hall), Secretary, desires post with Doctor in October; 6 years' experience; East or South-Eastern district. 57/38, Office of this Paper.

**L**ADY Dispenser (Hall) seeks post with Doctor, Chemist or Institution; good reference. Miss Molyneux, 54 Higher Drive, Purley.

**L**EDS.—Young lady, 27, qualified, 6 years' experience, capable of Manager, quick, witty, knowledge Ultra Violet Ray, desires post, Shop, Doctor, Laboratory or Institution; two latter preferred. 329, Roundhay Road.

**L**ICENSER.—If the services of a thoroughly competent Assistant, all-round pharmacy experience, are required in this city, reasonably low salary, please communicate. Spencer, "Bronte," Browett Road, Radford, Coventry.

**L**OCUM or temporary Assistant; unqualified; age 25; excellent references and experience; at present disengaged. 155/503, Office of this Paper.

**L**OCUM, qualified, single, age 31, as Manager or Assistant; disengaged September 14. "Chemist," 52 Mandeville Road, Enfield Wash, Enfield.

**L**OCUM or permanent; latter preferred; disengaged; thoroughly experienced Manager, middle-aged; would manage Drug Store; good references; moderate salary; unregistered. Taylor, 2 Allestree Road, Fulham, S.W.6.

**L**OCUM; qualified; 24; free September; abstainer; excellent recommendations; trustworthy; energetic and keen Salesman; Private and N.H.I. Dispensing, Photographic. 71/10, Office of this Paper.

**L**OCUM; 21; August 30 until September 14; good Dispenser; all-round experience; excellent references. H. E. Plummer, 20 Somerset Road, Walthamstow, E.17.

**M**ANAGER (qualified) desires position; fully experienced; accustomed to brisk trade and up-to-date business methods; Window-dresser, Prescriber, specialty Salesman; East, City, or West-End suburb preferred. 72/35, Office of this Paper.

**M**ANAGER; age 50; managerial experience; 4 years West-End; also country and seaside experience; disengaged October 1; country entertained. J. Frederick Pratt, Ph.C., 23 Grand Square, W.1.

**M**ANAGING or Senior; qualified; first-class, all-round experience; at present West-End; desires post in South-West England; free after reasonable notice. 71/35, Office of this Paper.

**M**ANCHESTER.—Unqualified Assistant, age 20, desires situation early October; sound experience in Counter, Dispensing, Photography and Window-dressing; best references. Greenberg, 6 Haworth Street, Waterloo Road, Cheetham, Manchester.

**M**.P.S.—Young, single, desires post near London; Retail, Wholesale and Hospital experience; now disengaged. 73/18, Office of this Paper.

**M**.P.S.—SCOT; 35; single; experienced; energetic; trustworthy; good references; disengaged. Smith 91 Lichfield Road, E.8.

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**P**USHING man going begging; elderly; unqualified; energetic worker; Prescriber. Bell, Ely, Cambs.

**Q**UALIFIED, middle-aged, physically fit, with wide experience, seeks situation as Manager; present position 31 years; competent Dispenser; free September 8. Skeat, 119 E. Dulwich Grove, East Dulwich, S.E.22.

**Q**UALIFIED, 25, 8 years' high-class London, provincial and Continental experience, seeks post, preferably West-End or City; good appearance and address. "M.P.S.," 73/32, Office of this Paper.

**Q**UALIFIED, single, energetic, West-End and Hospital experience, desires post in Hospital or Institution; disengaged September 7. 155/502, Office of this Paper.

**Q**UALIFIED Lady, of good address, requires post as Branch Manager; previous experience; good references; well recommended for Salesmanship and Window-dressing; plenty of initiative and keen business intellect; London. 72/36, Office of this Paper.

**Q**UALIFIED; 30 years' varied experience, shop, Hospital, N.H.I., etc.; permanent, part time, locum; Manchester district preferred. 72/38, Office of this Paper.

**Q**UALIFIED, young, energetic, seeks permanency as Manager or Assistant in London or suburbs; varied experience. "M.P.S.," 52 Stockwell Park Crescent, Stockwell, S.W.9.

**Q**UALIFIED Locum or Manager; disengaged September; middle-aged; country town preferred. Long, 7 Barrow Road, Streatham Common, S.W.

**Q**UALIFIED (July) requires post as Assistant; capable of taking charge; 3 years' experience. Dispensing, Counter, Photographic and Window-dressing; Birmingham or district; available September 23. Address 76 Fox Hollies Road, Birmingham.

**U**NQUALIFIED Assistant (Part I), six years' experience, Dispensing, Window-dressing, Photography; good Salesman, desires post in Midlands, Potteries district preferred. Percy Pemberton, 92 Greasley Road, Abbey Hutton, Stoke-on-Trent.

**U**NQUALIFIED; age 42; life experience, especially West-End; disengaged October; capable of managing; London. Particulars, etc., Little, 9 Westbourne Street, Sloane Square, S.W.1.

**£5** 5s. per week and progressive position wanted by qualified Manager; aged 27; married; excellent references. 74/14, Office of this Paper.

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**E**NERGETIC young man (Frisch), 5 years' experience, Manufacturing and Retail firm, has represented same, desires to represent first-class house (Ireland preferred); Public School education; drive any car; salary, commission and expenses. Write 70/260, Office of this Paper.

**E**XPERIENCED, courteous, obliging, unqualified Assistant seeks outdoor berth; 7 years last situation; good appearance and address. 74/11. Office of this Paper.

**G**ENTLEMAN, experienced, speciality work, Dentists, willing represent, part-time; basis, salary, expenses; highest references. 75/22, Office of this Paper.

**G**ENTLEMAN, returning to Brazil, desires to represent firm capable of supplying complete line of Pharmaceutical Products. Write "Brazil," c/o Dixon, 155 Oxford Street, W.1.

**L**ADY Dispenser, energetic, strong, desires post, laboratory Assistant, or take complete control; every branch Toilet preparations; West-End experience; Liverpool district preferred, but not essential. 72/24, Office of this Paper.

**L**ONDON Traveller is open to accept position with reputable firm; experienced in handling all lines appealing to Chemist's trade; 20 years' practical knowledge; own car; energetic; disengaged. 74/250, Office of this Paper.

**Q**UALIFIED man, 25, well known to Midland Chemists, desires to represent an established firm in Pharmaceutical Products, Sundries, Photographic; own car; all-round experience. 71/8, Office of this Paper.

**R**EPRESENTATIVE, 25 years' experience first-class firms, Soap, Toilets, Perfumery, calling Chemists and Stores, South-West, West of England, Midlands, Lancashire, North, Wales, Scotland; highest references; disengaged; age 52. ("E. J.," 70/40, Office of this Paper.

**T**RAVELLER, covering extensive territory, is open to carry a first-class stock line on good commission basis or commission and part expenses. "Avenue," 70/31, Office of this Paper.

**T**RAVELLER, reliable and energetic man, is open to represent a good progressive house, Drugs, Sundries or allied trades, many years' experience; interview given. "T. X.," 70/310, Office of this Paper.

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**Q**UALIFIED, 24, desires position French or Italian Riviera. P.C.B. 60/27, Office of this Paper.

**U**NQUALIFIED, 32 years of age, good Retail experience; U Paris or French Riviera or Italian Riviera. 72/57, Office of this Paper.

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